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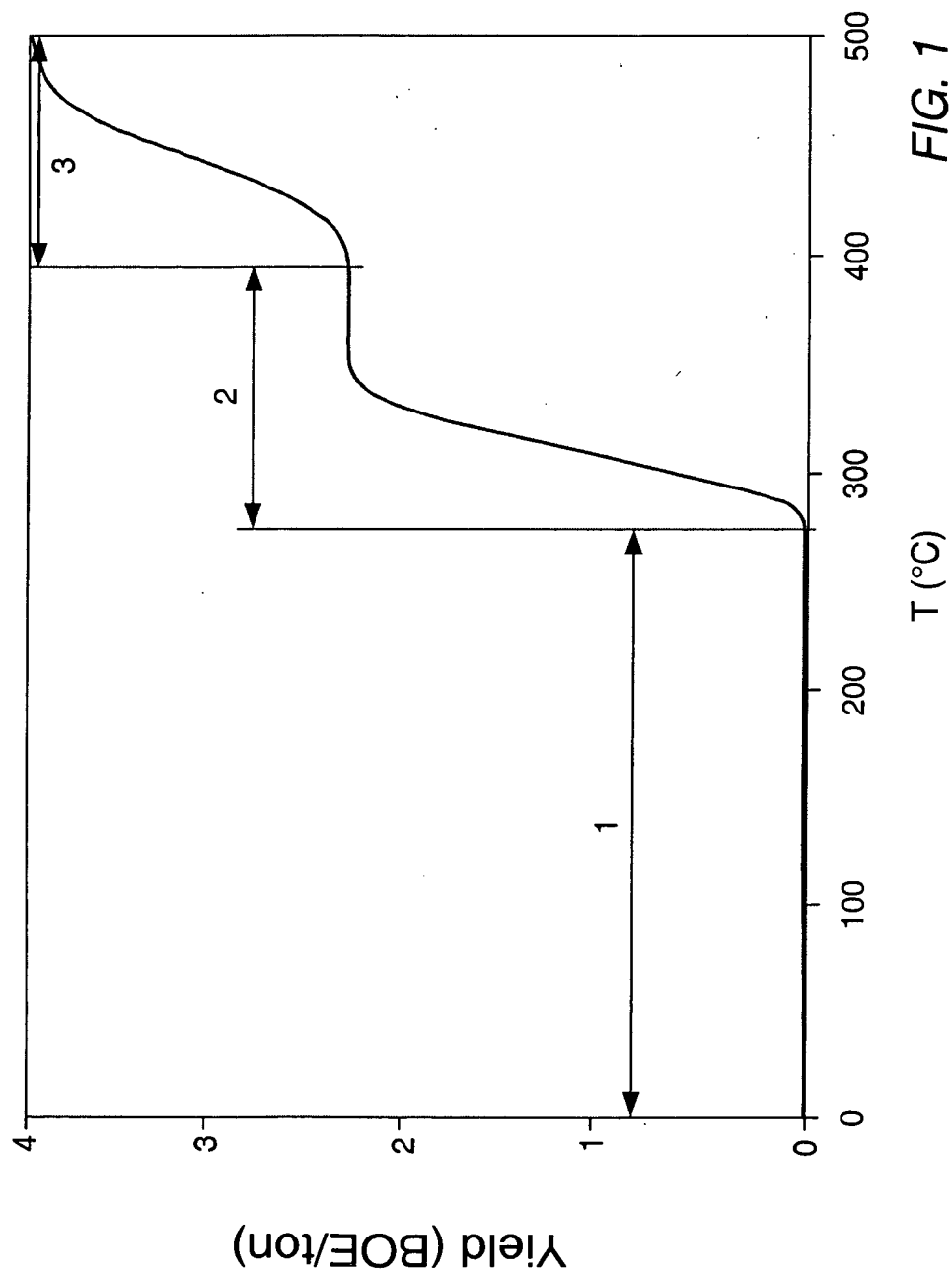
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

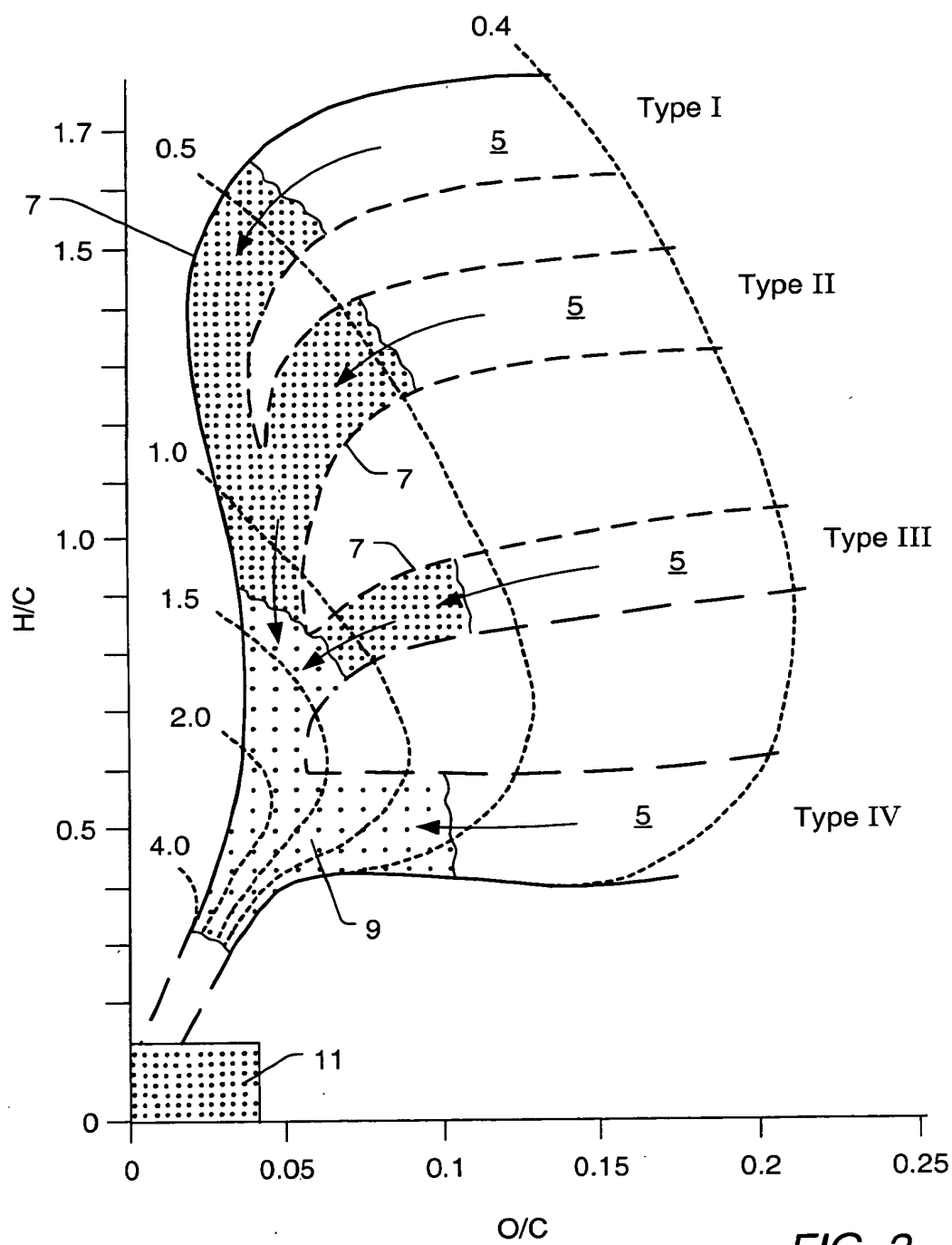


FIG. 2

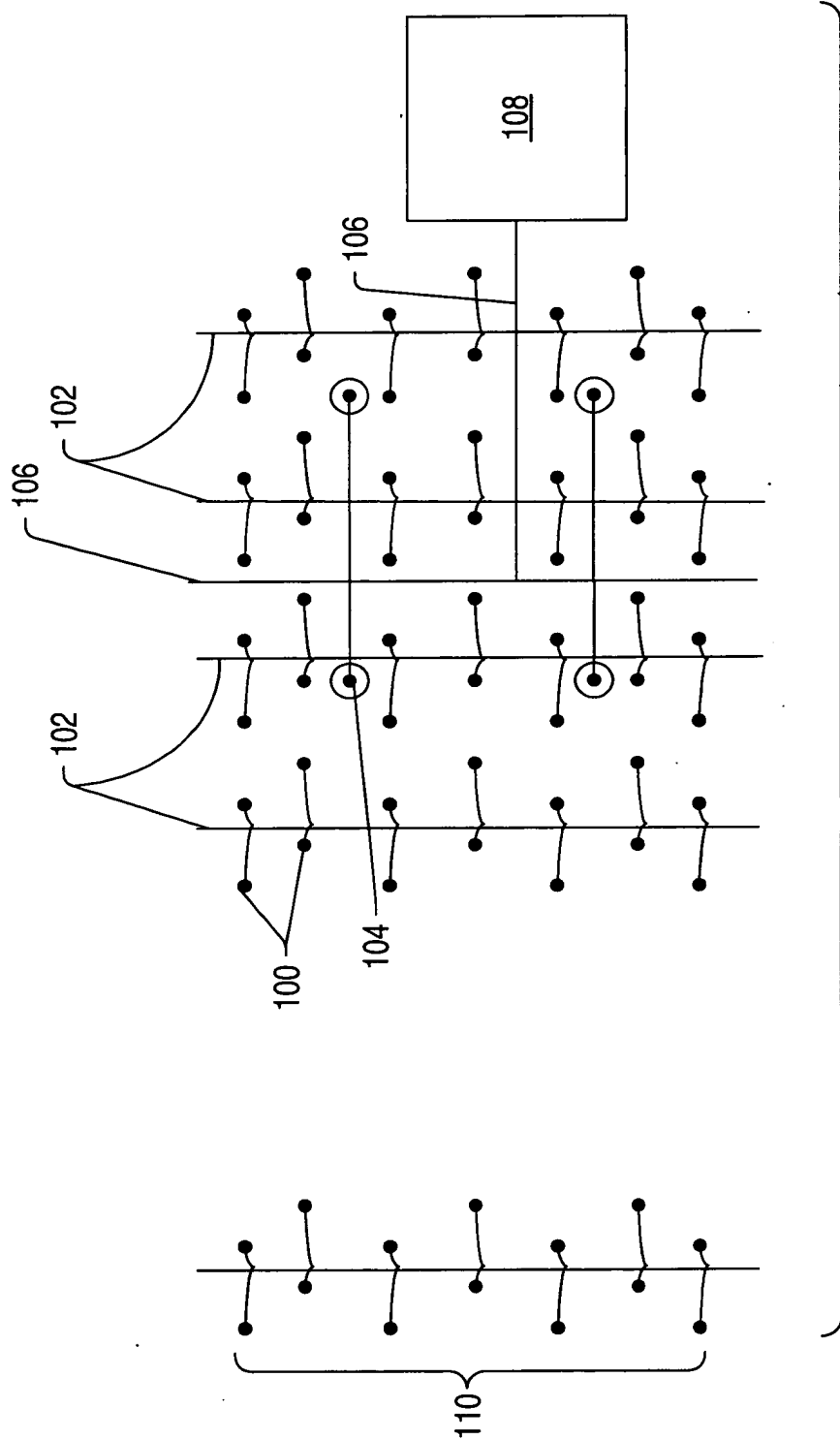


FIG. 3

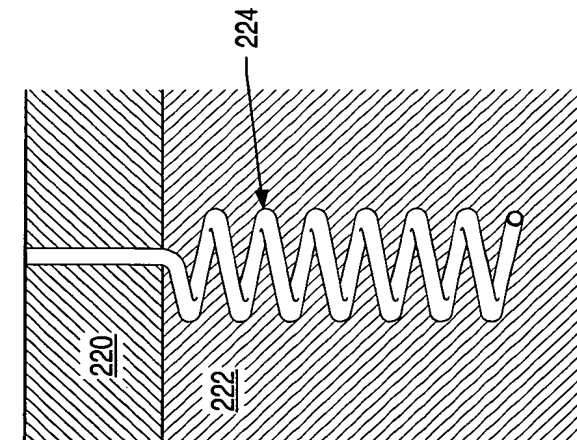


FIG. 3a

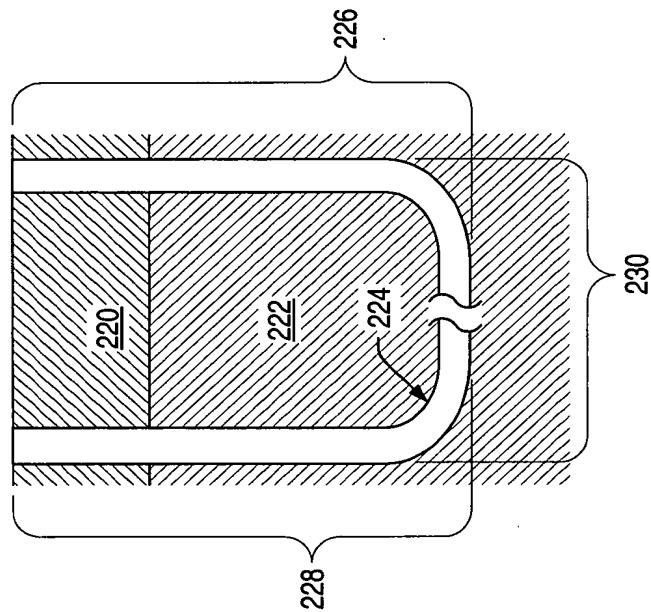


FIG. 3b

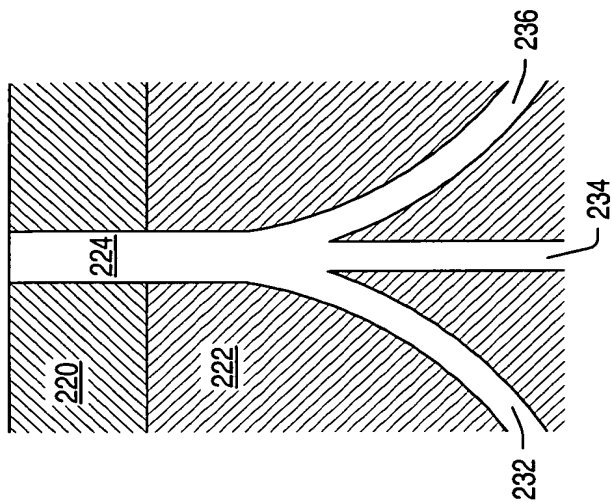
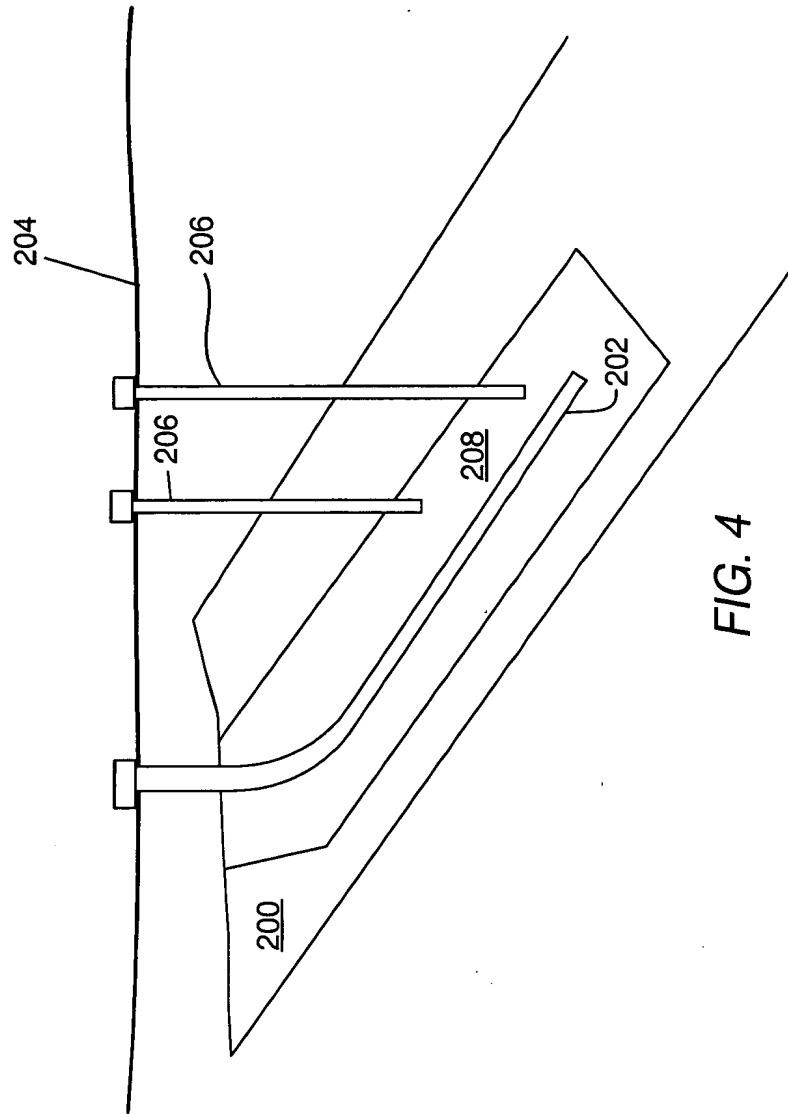
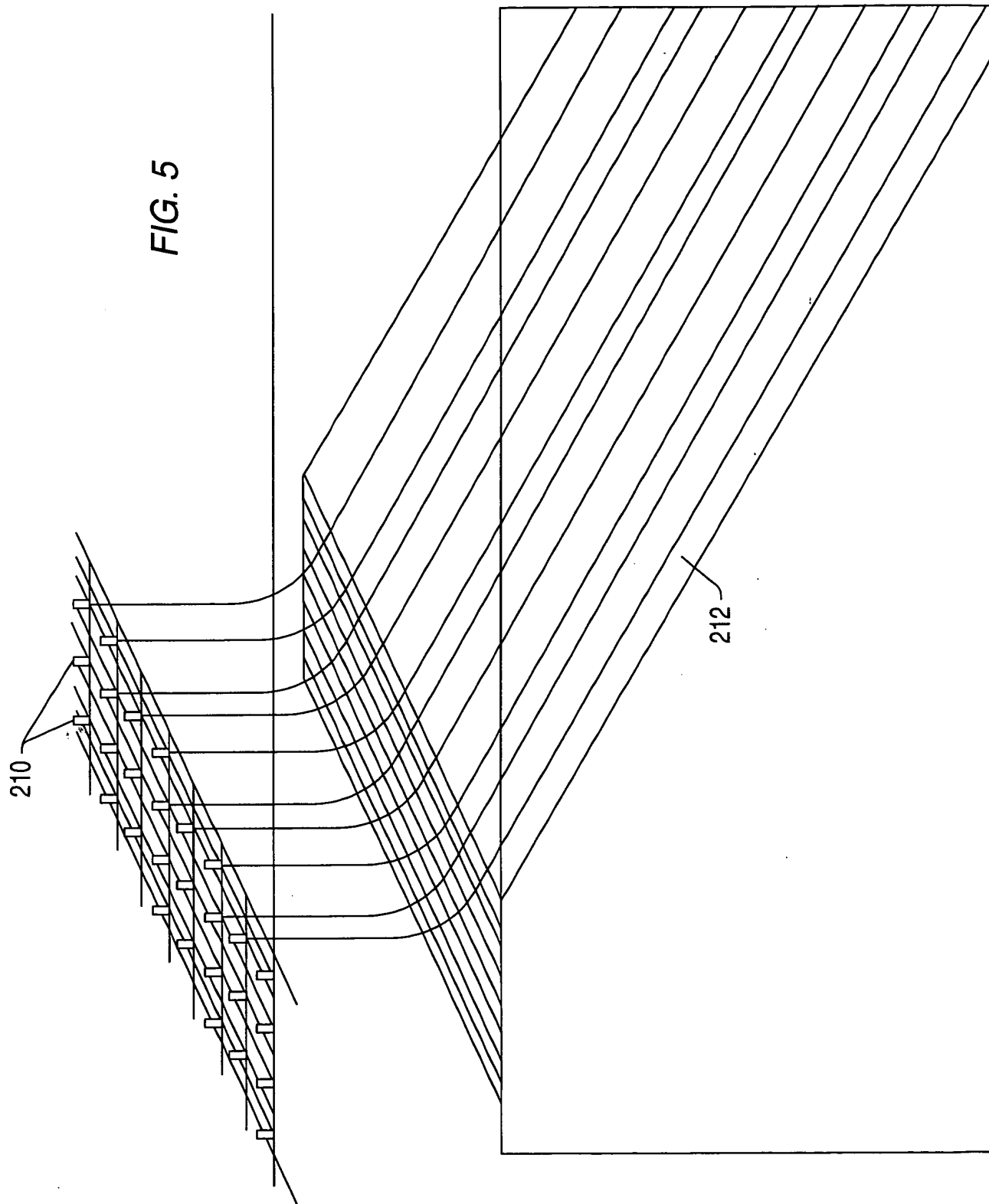


FIG. 3c





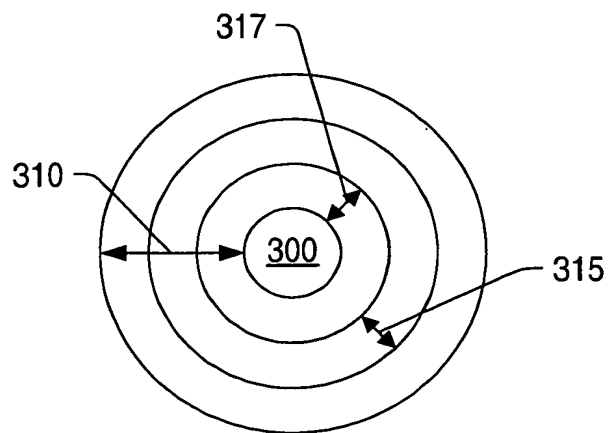


FIG. 6

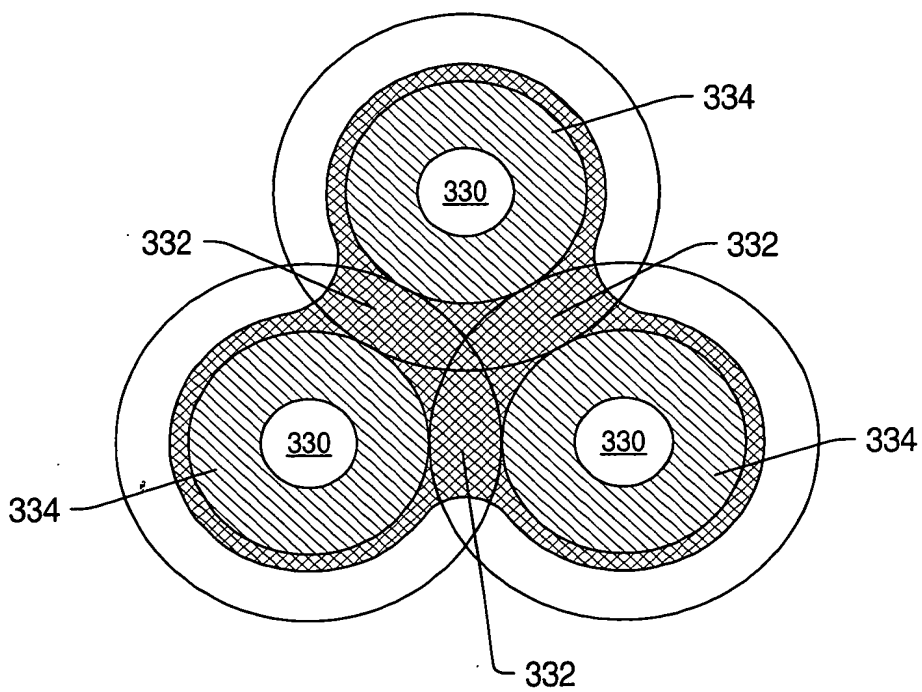


FIG. 7

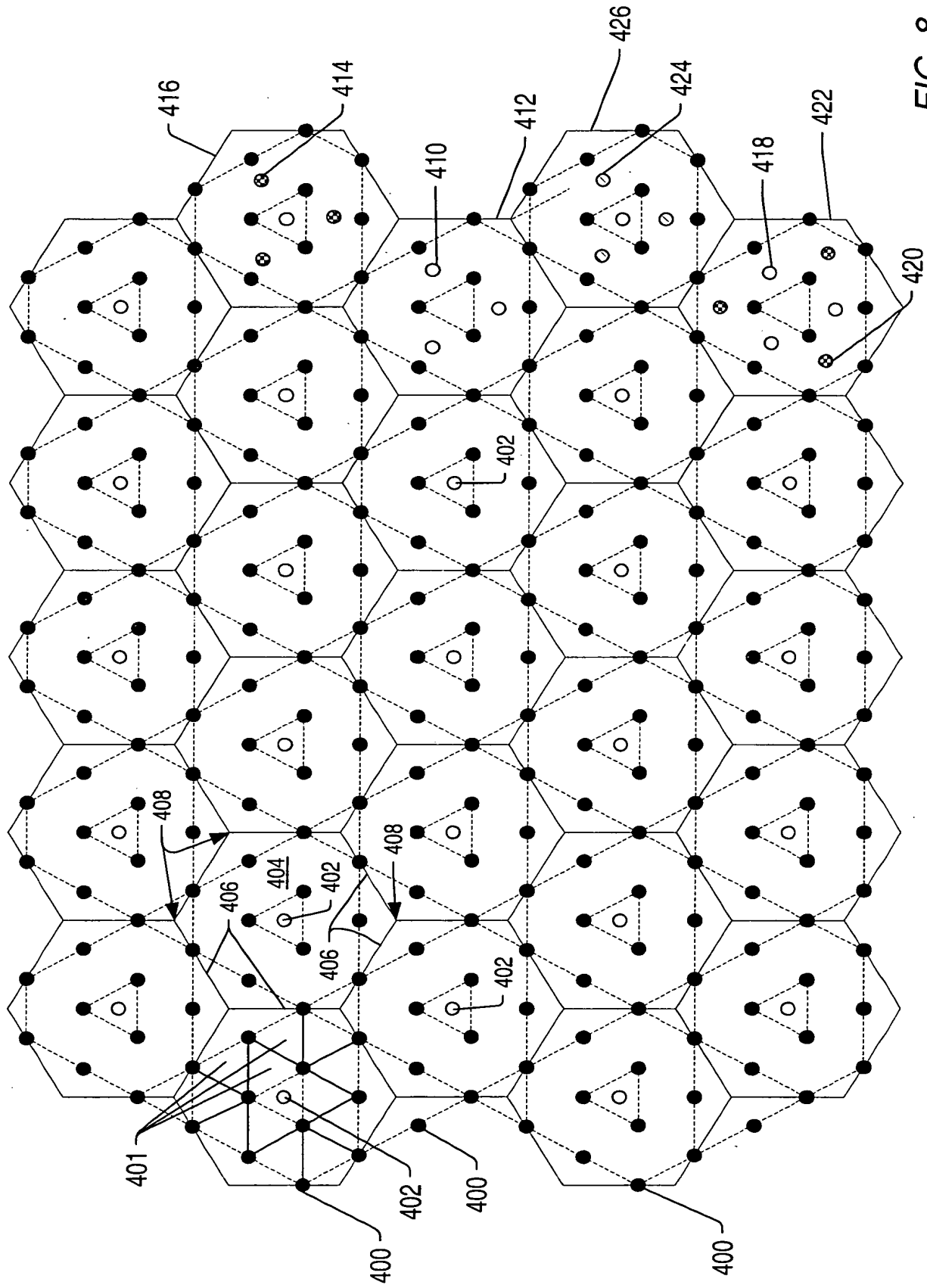


FIG. 8

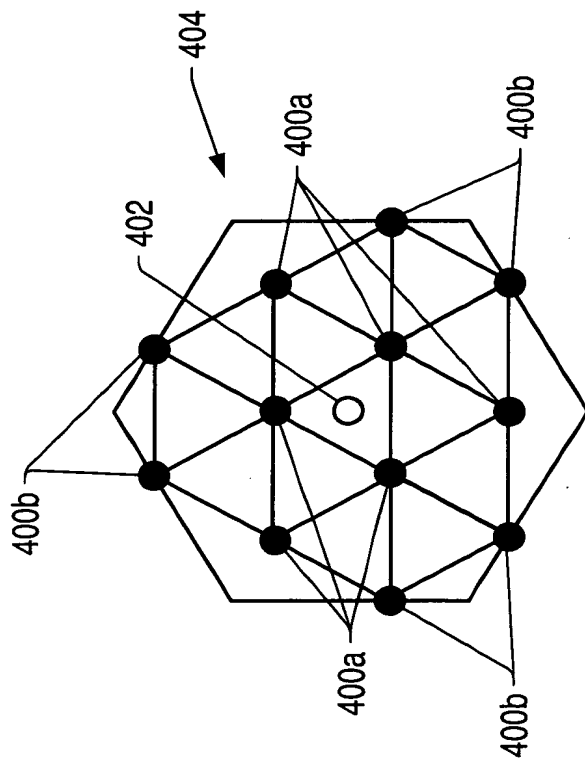


FIG. 9

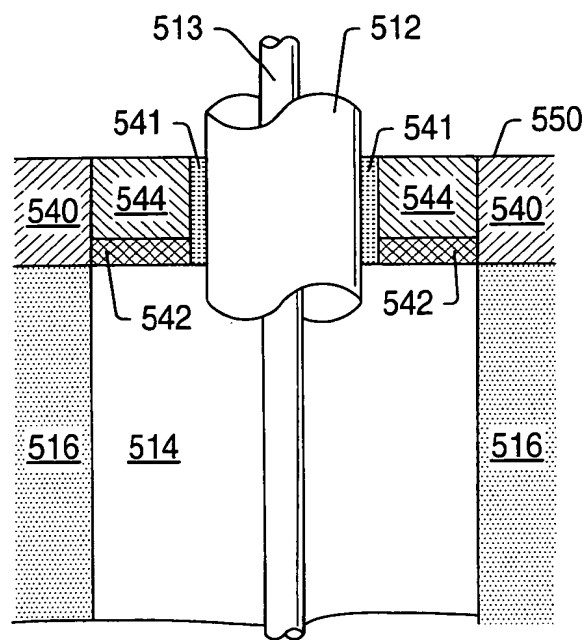


FIG. 11

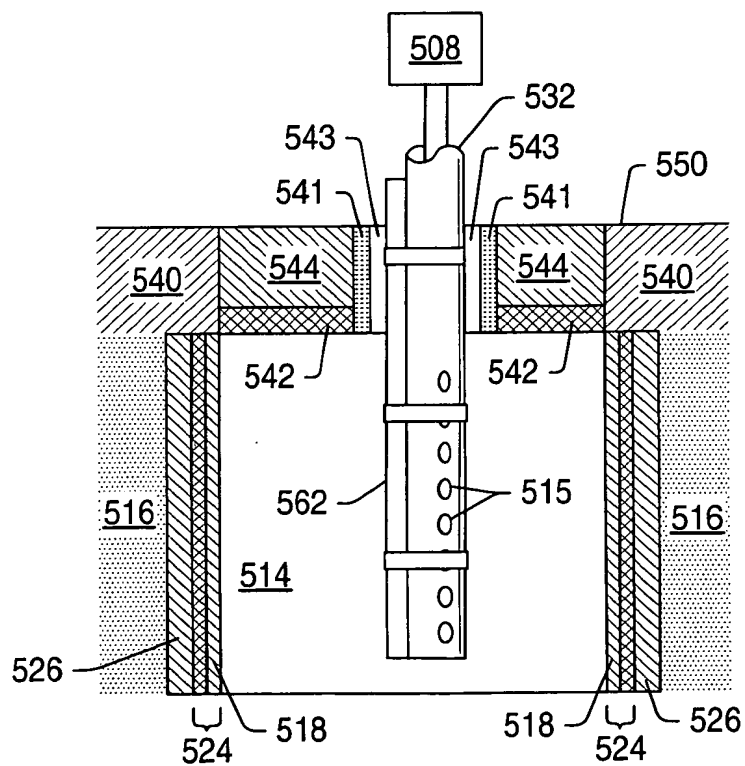


FIG. 12

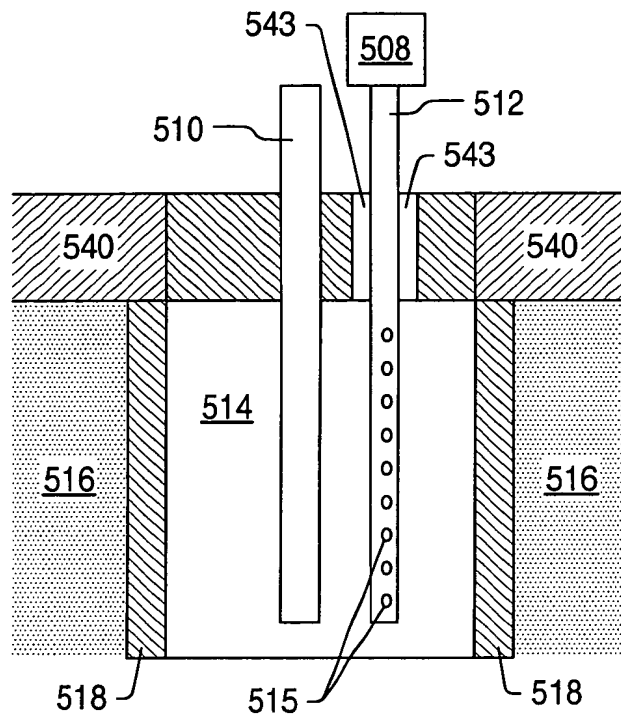


FIG. 14

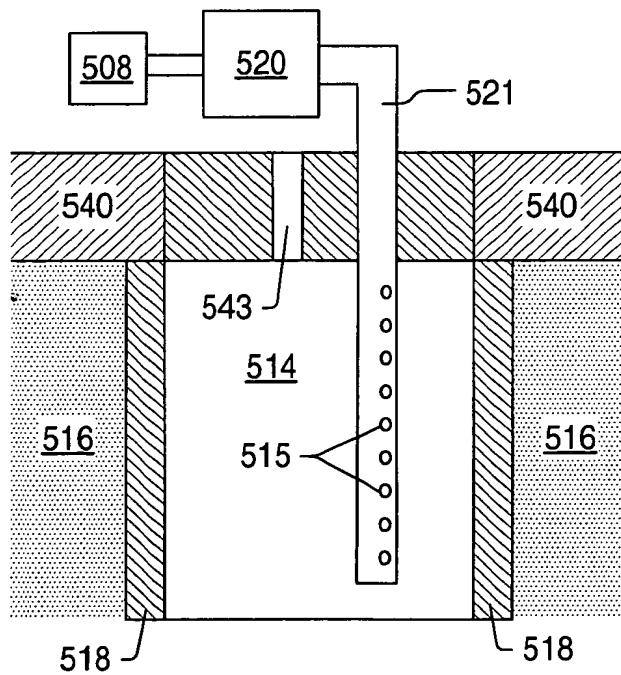


FIG. 15

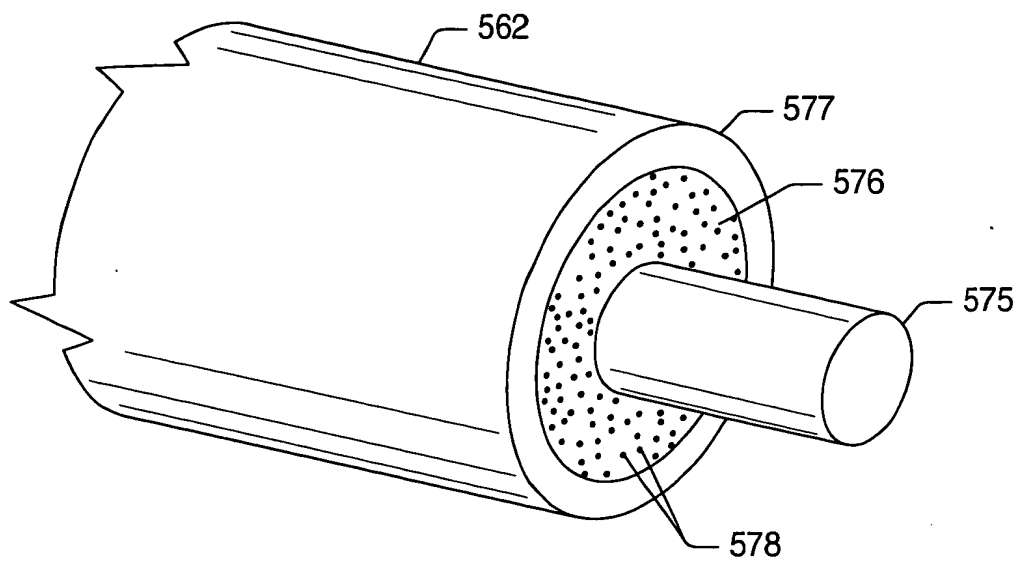


FIG. 16

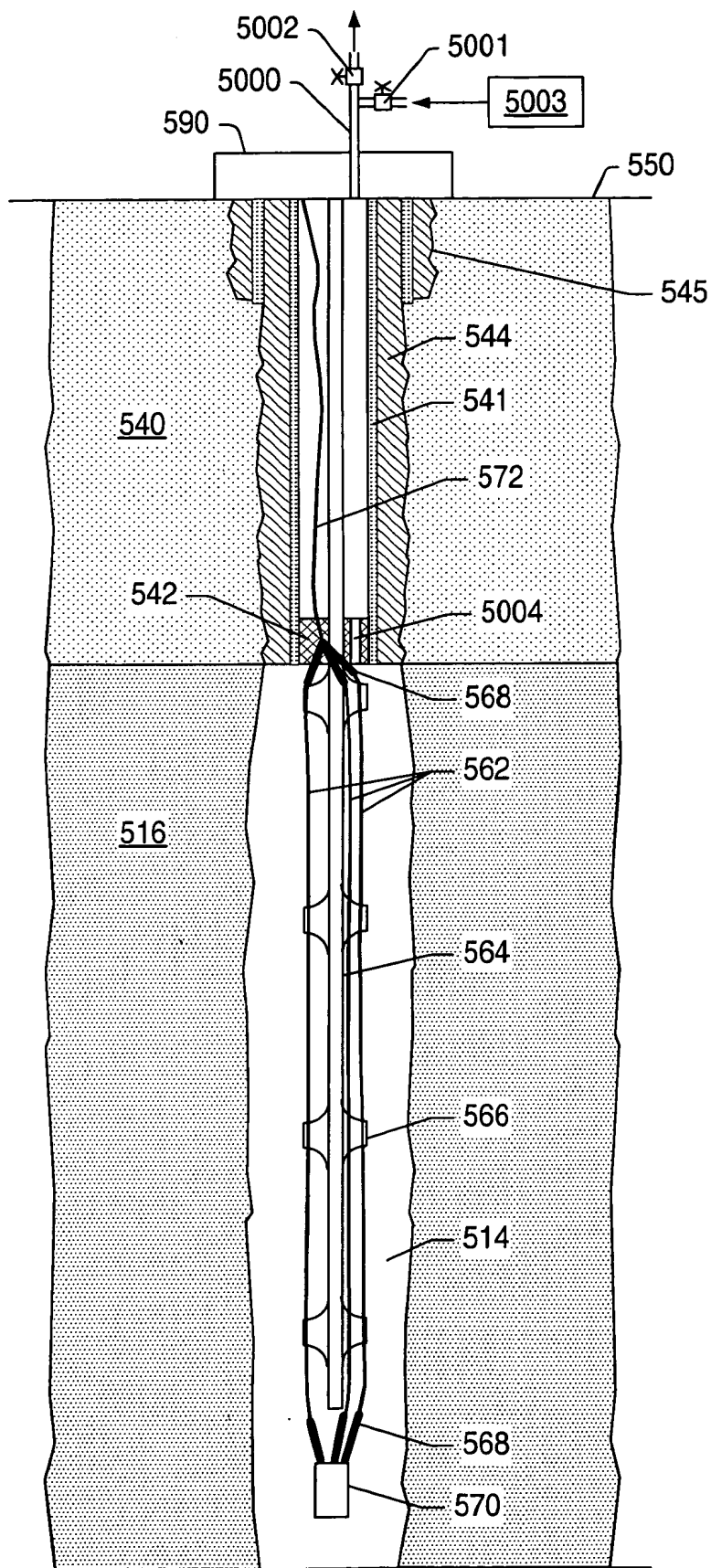


FIG. 17

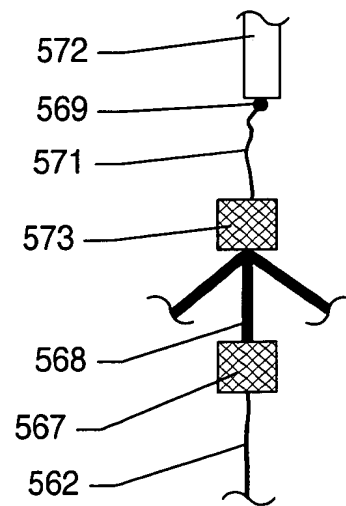


FIG. 17A

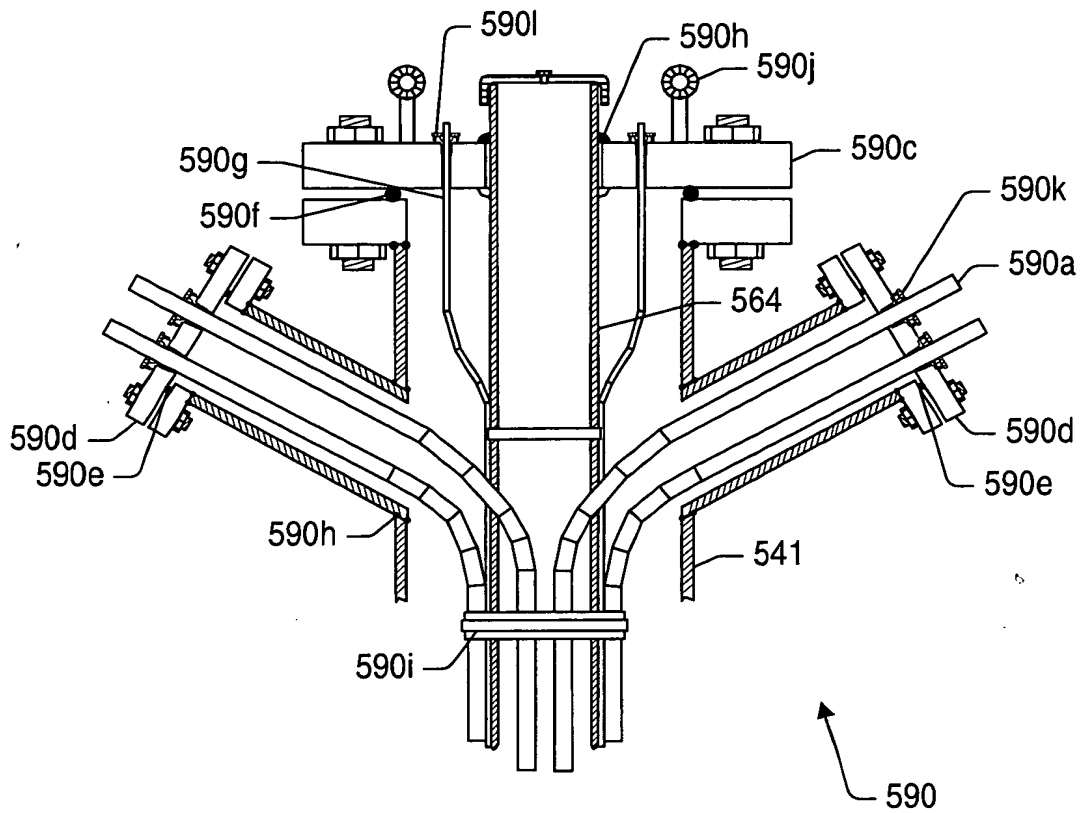


FIG. 18

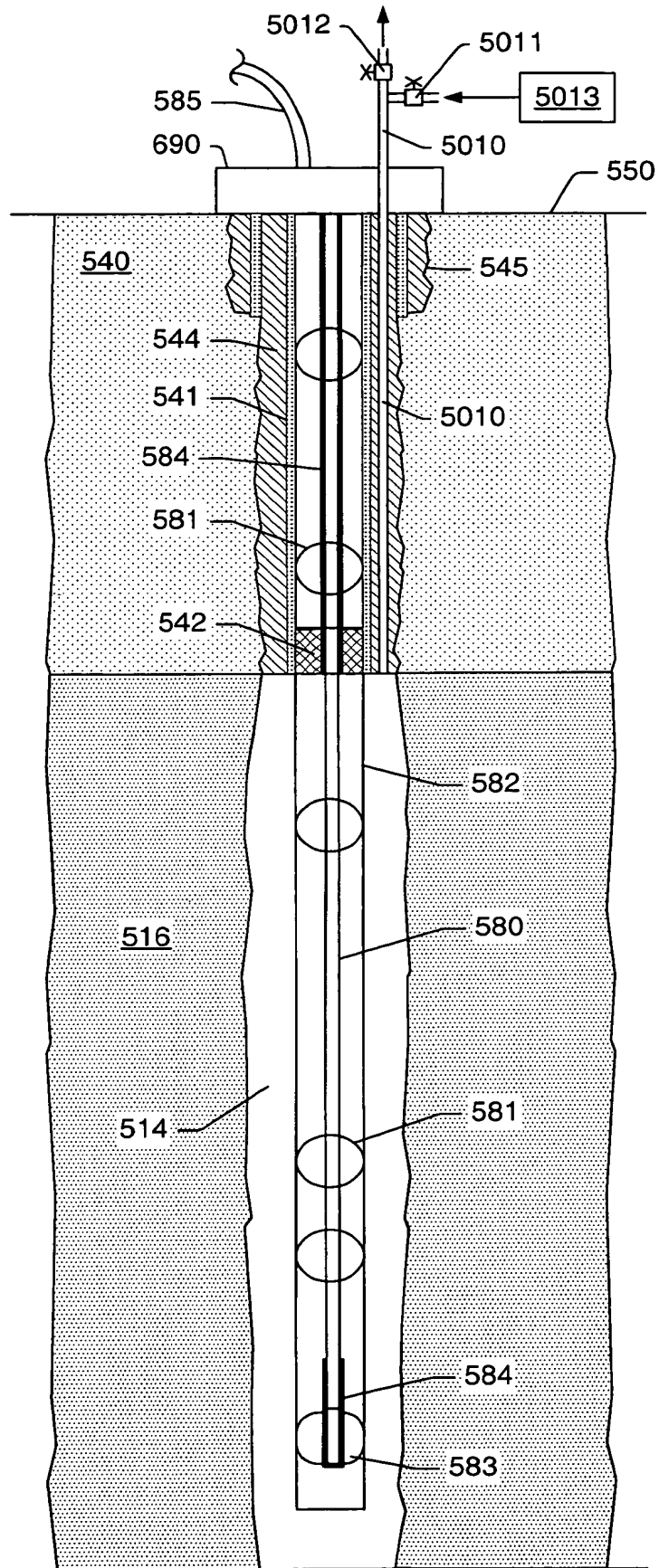


FIG. 19

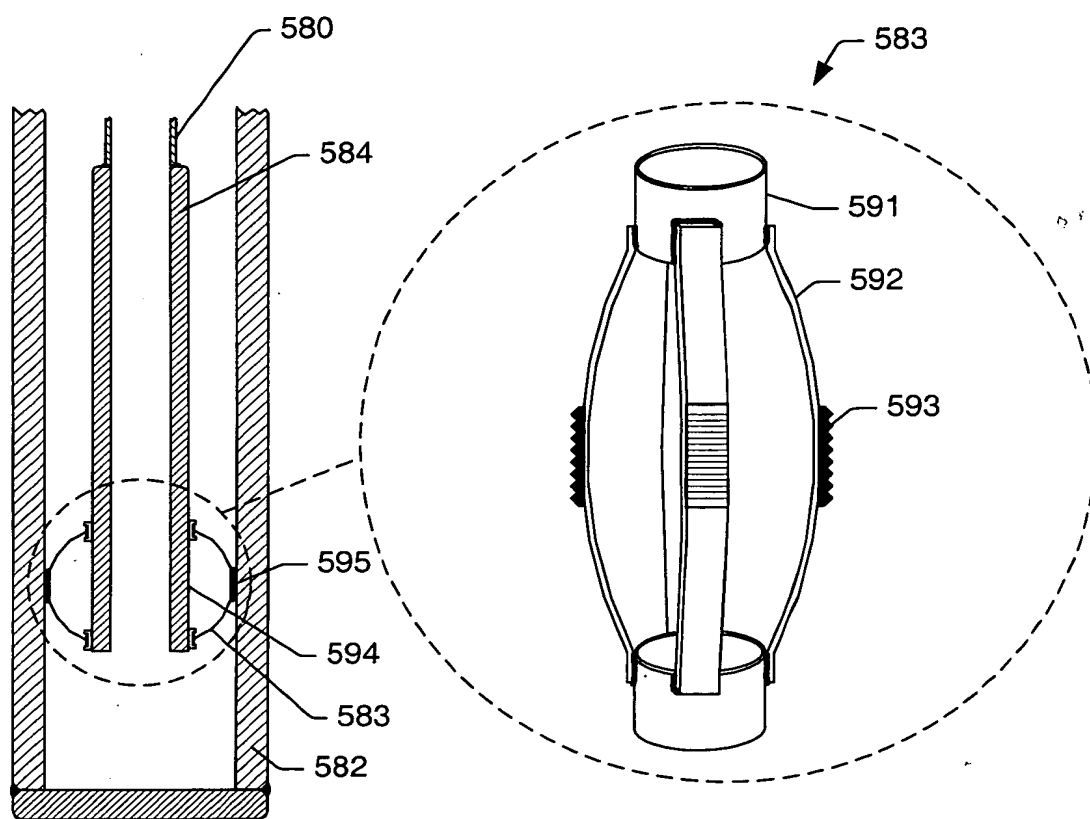


FIG. 20

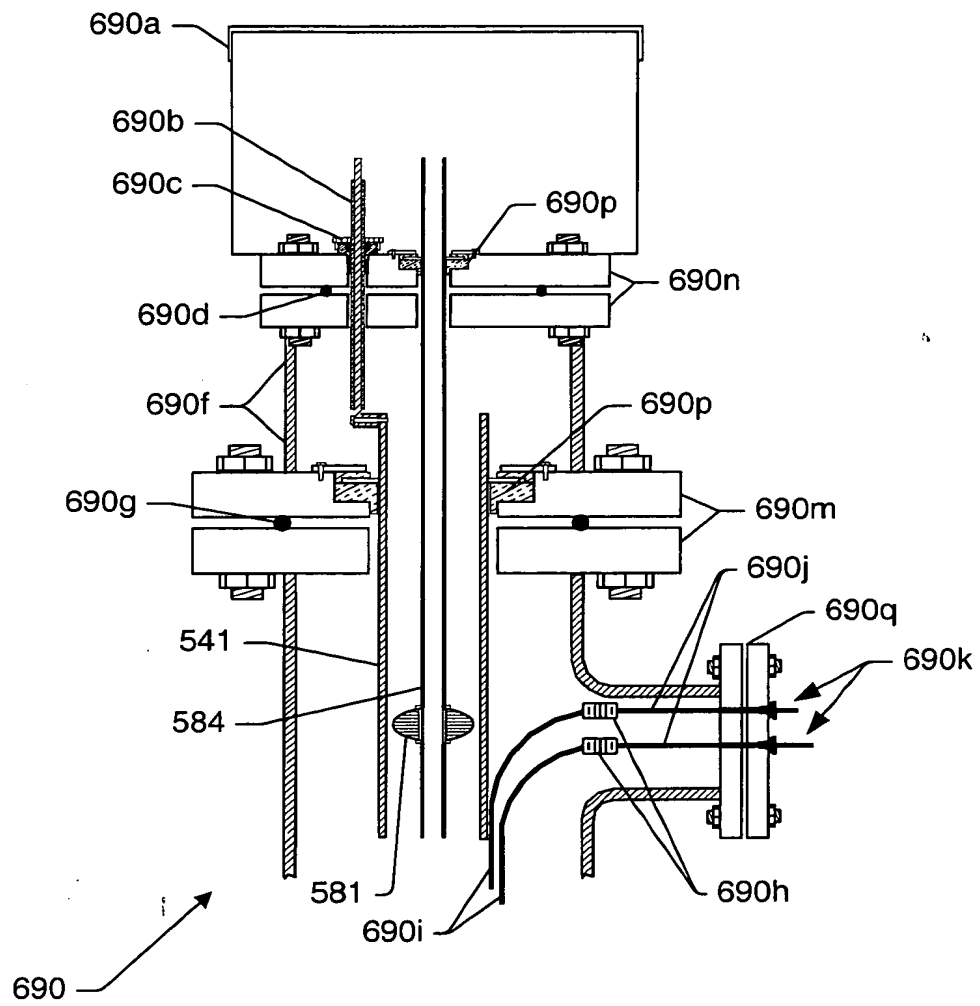


FIG. 21

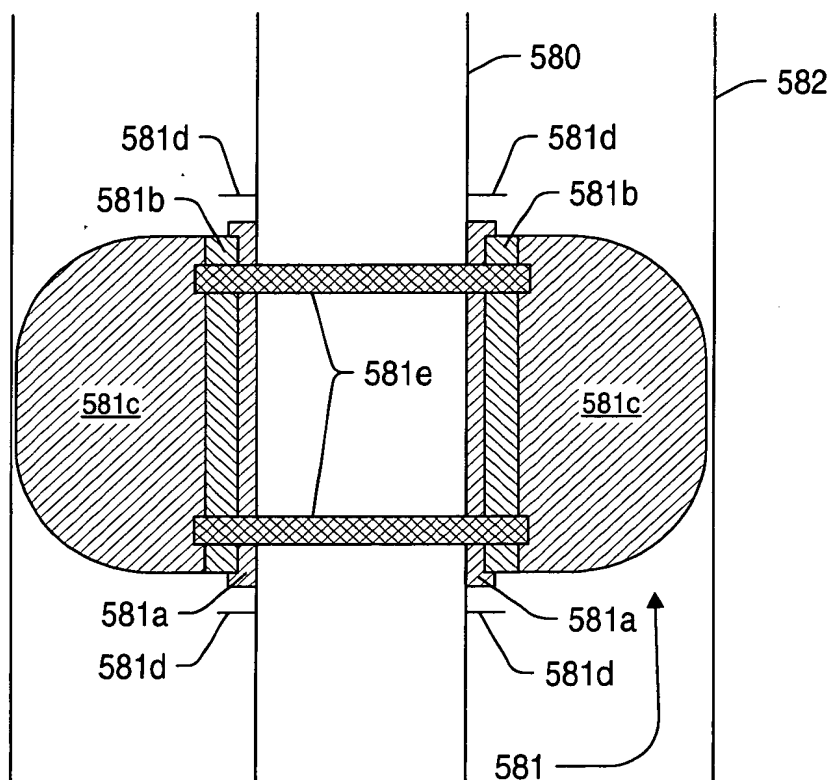


FIG. 22

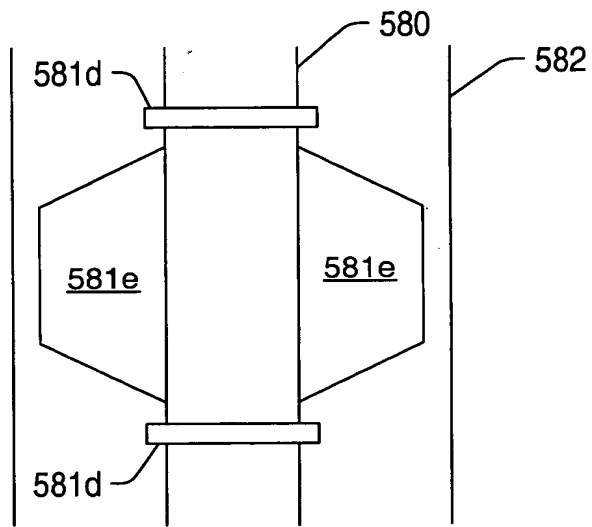


FIG. 23a

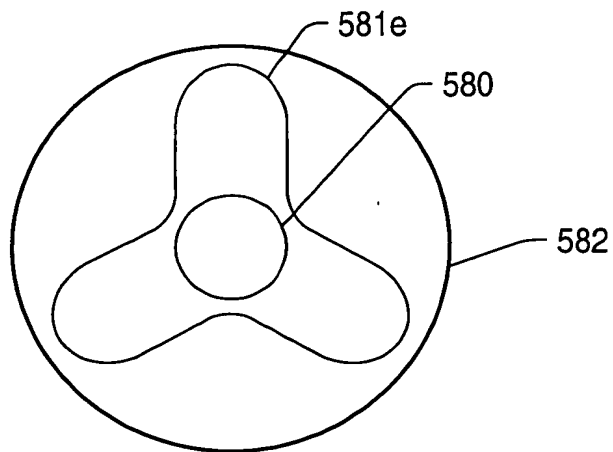


FIG. 23b

Fig. 24

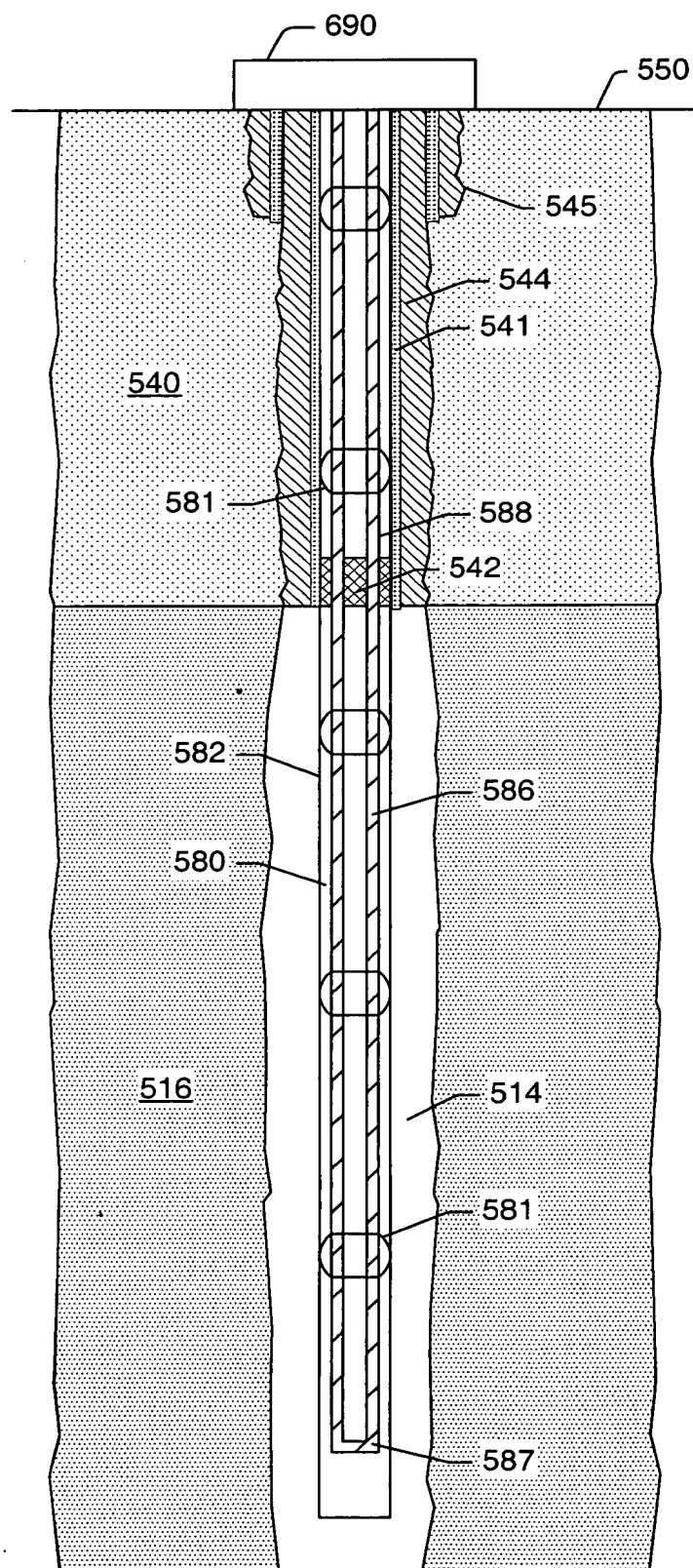


Fig. 24

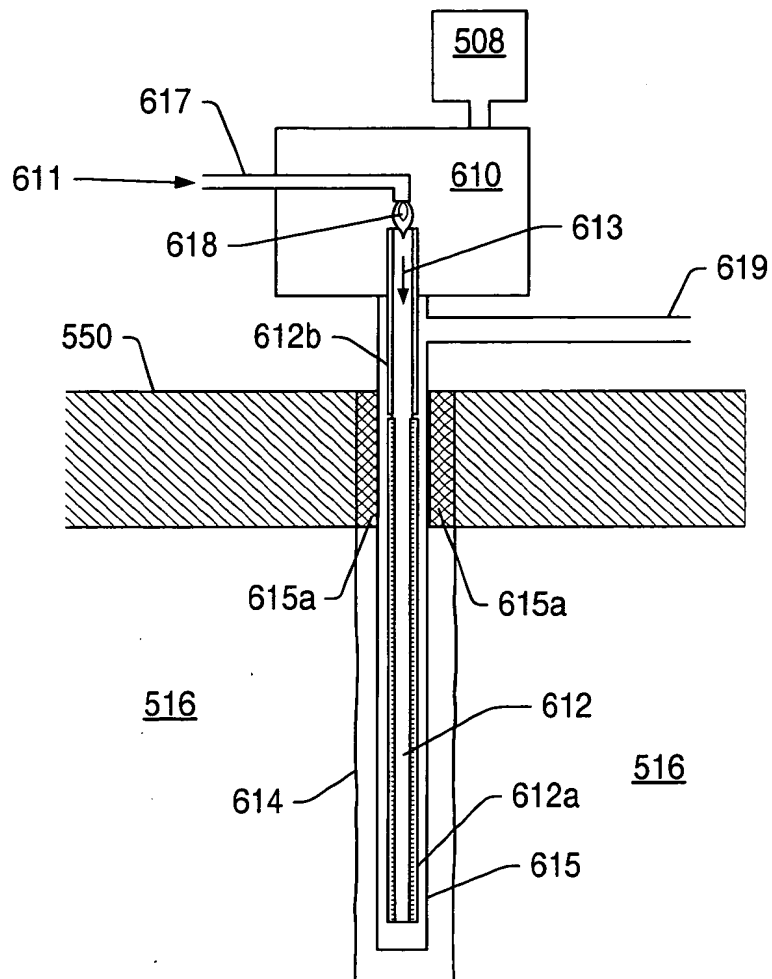


FIG. 26

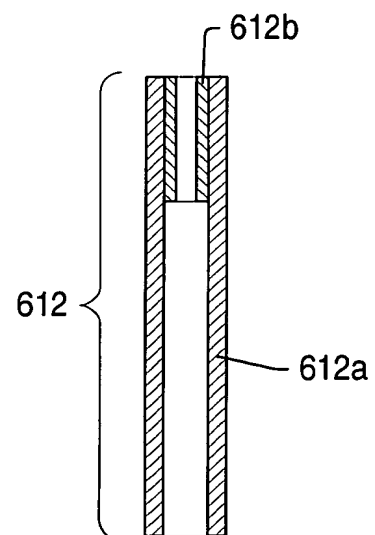


FIG. 27

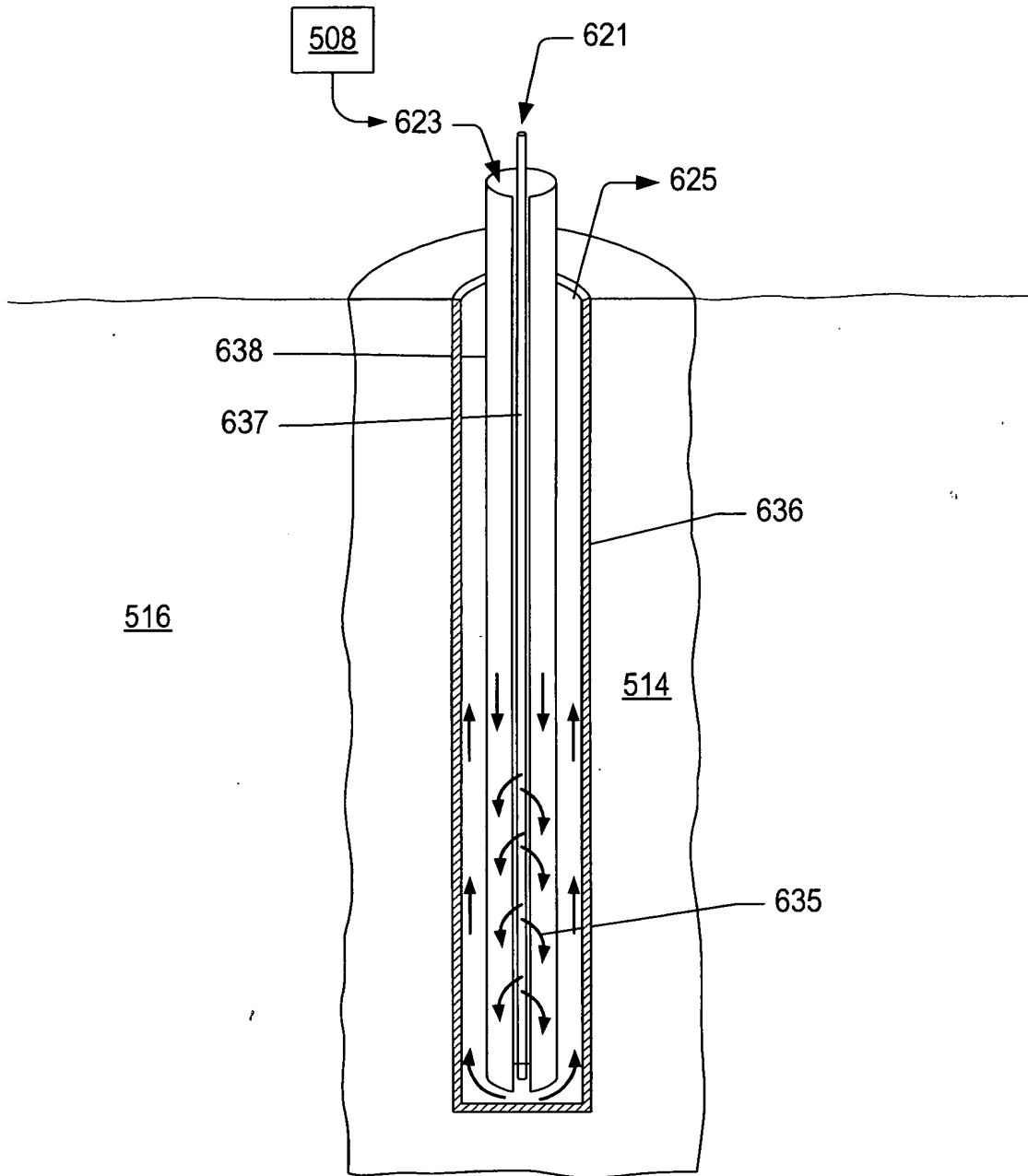


FIG. 28

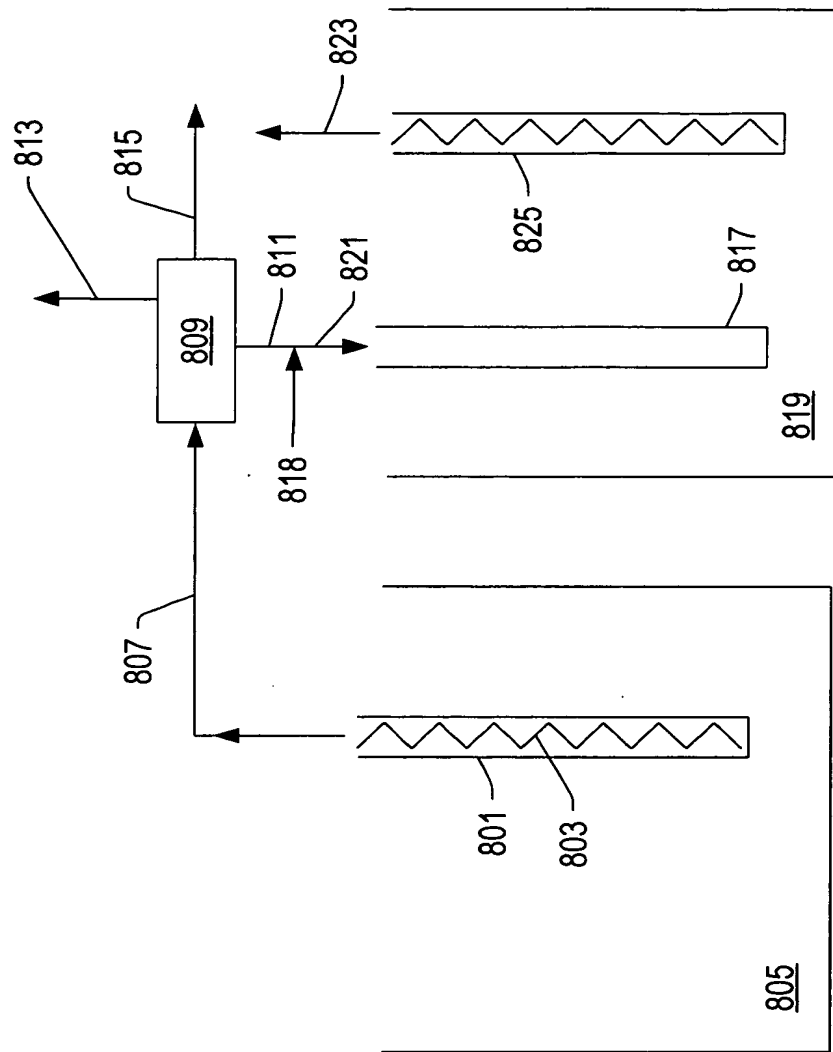


FIG. 29

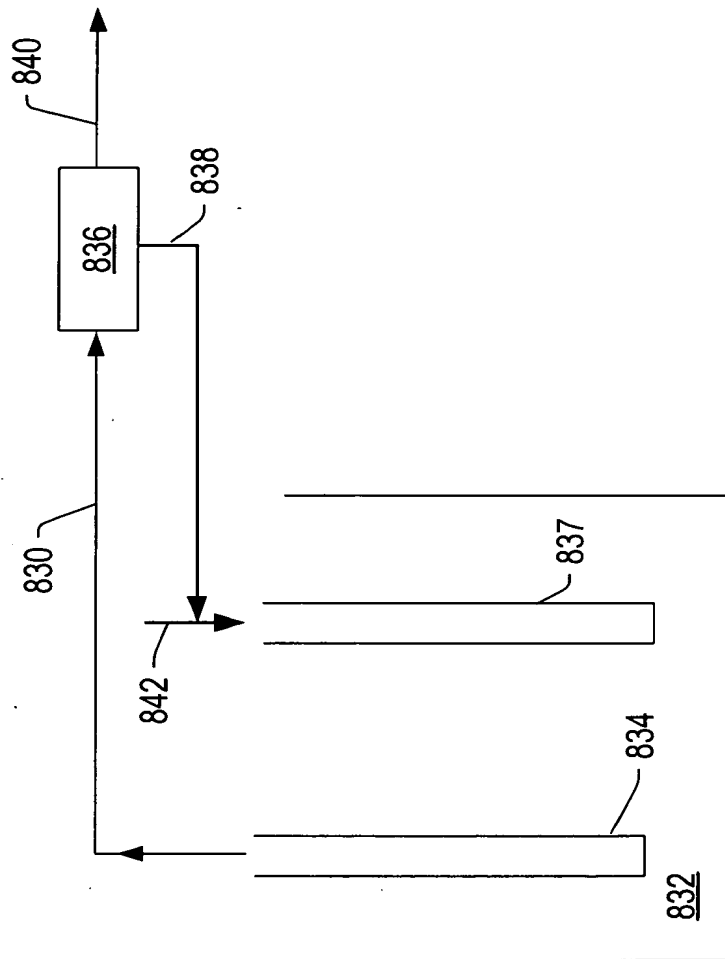


FIG. 30

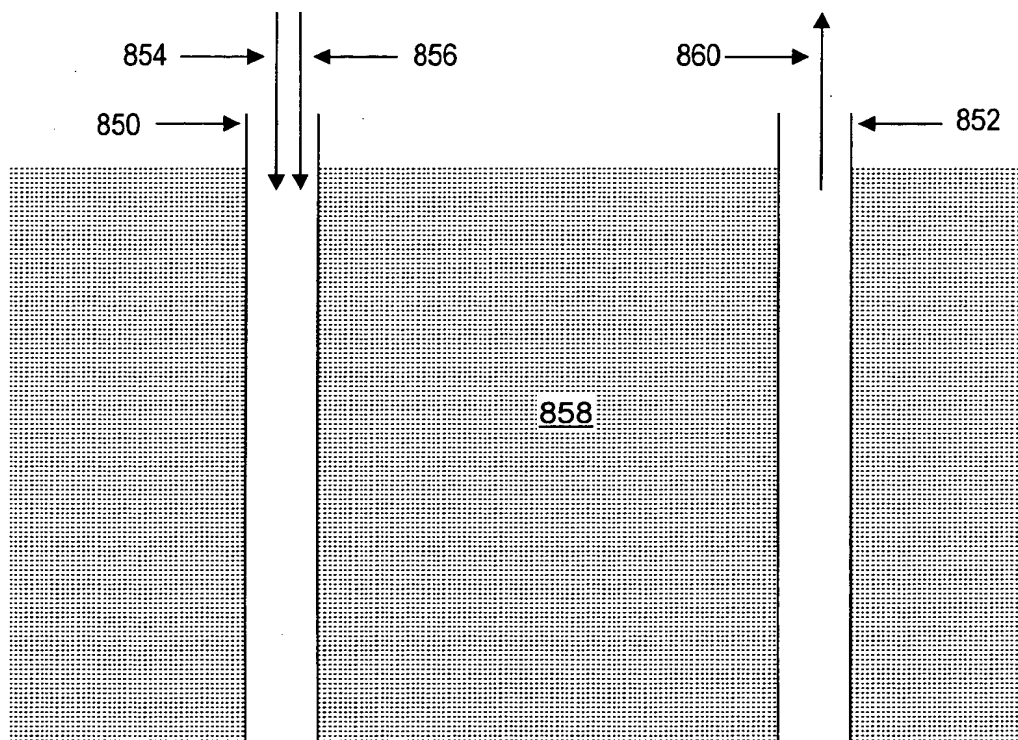


FIG. 31

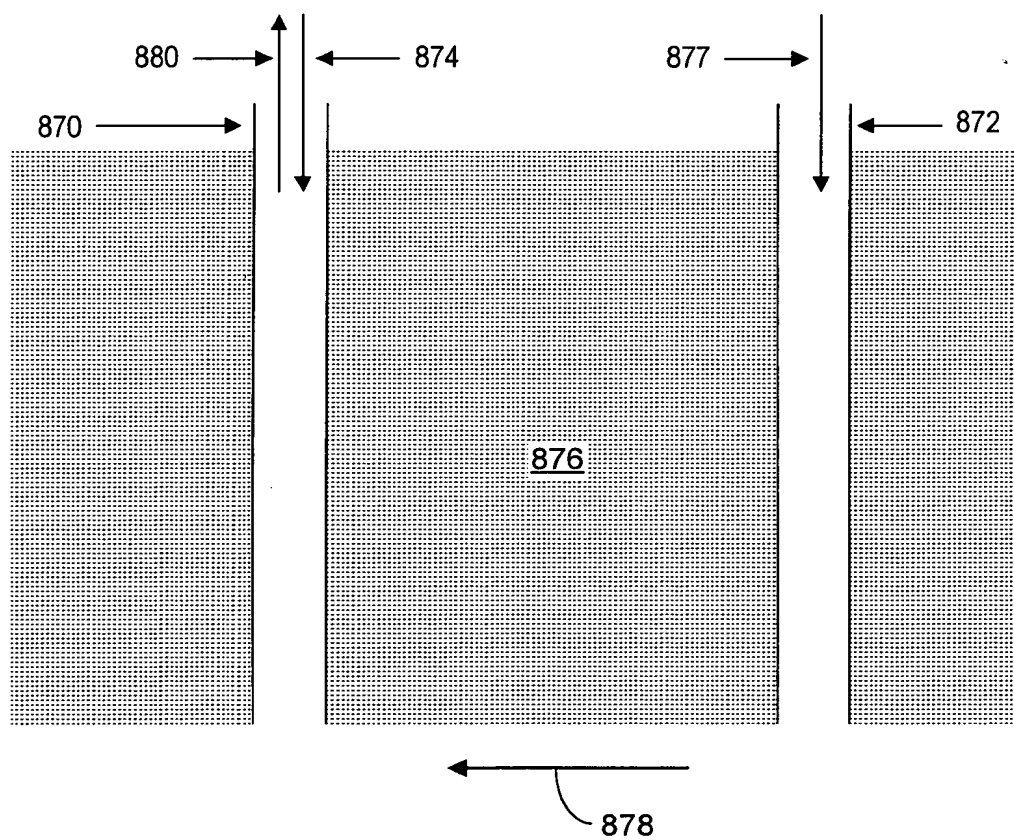
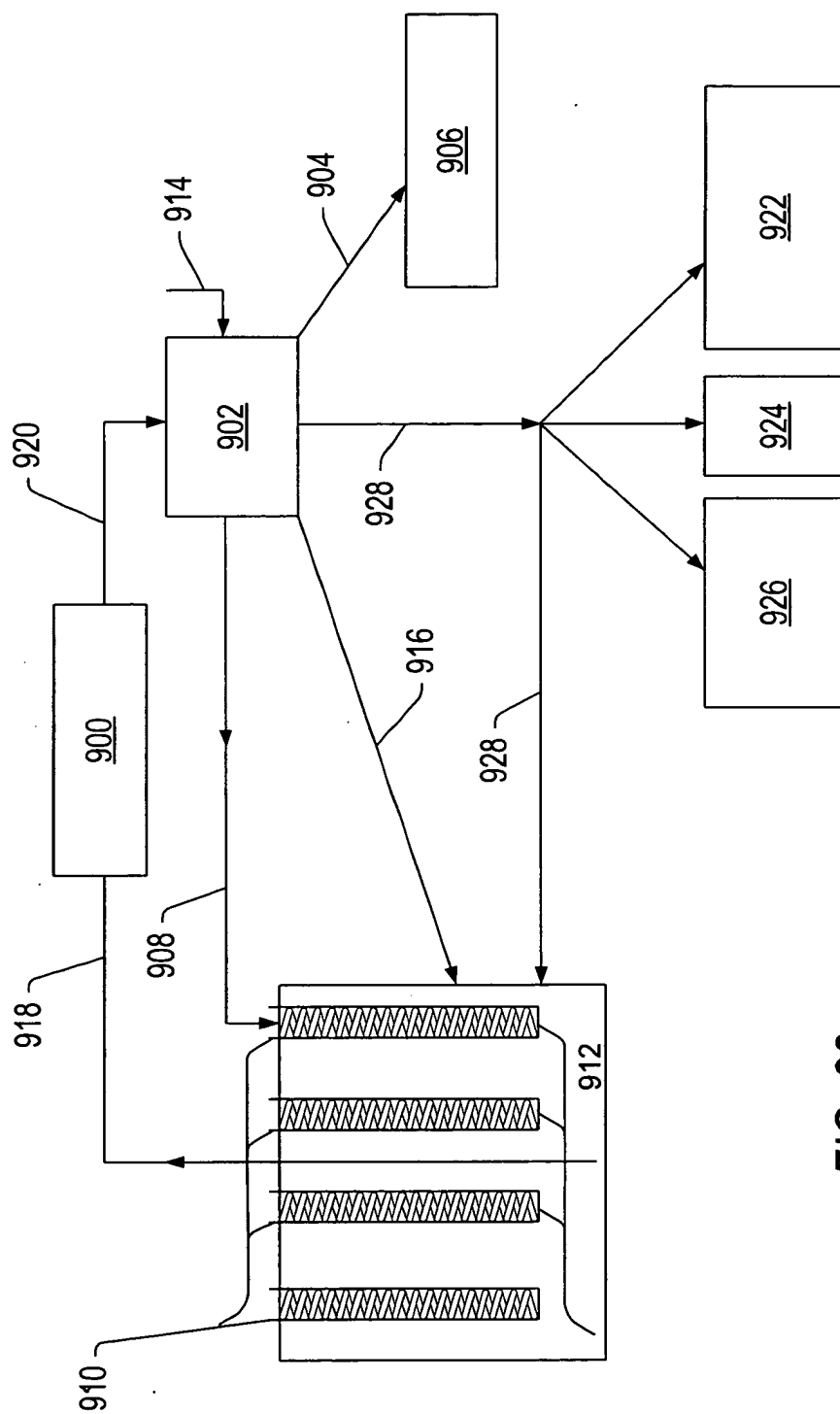


FIG. 32



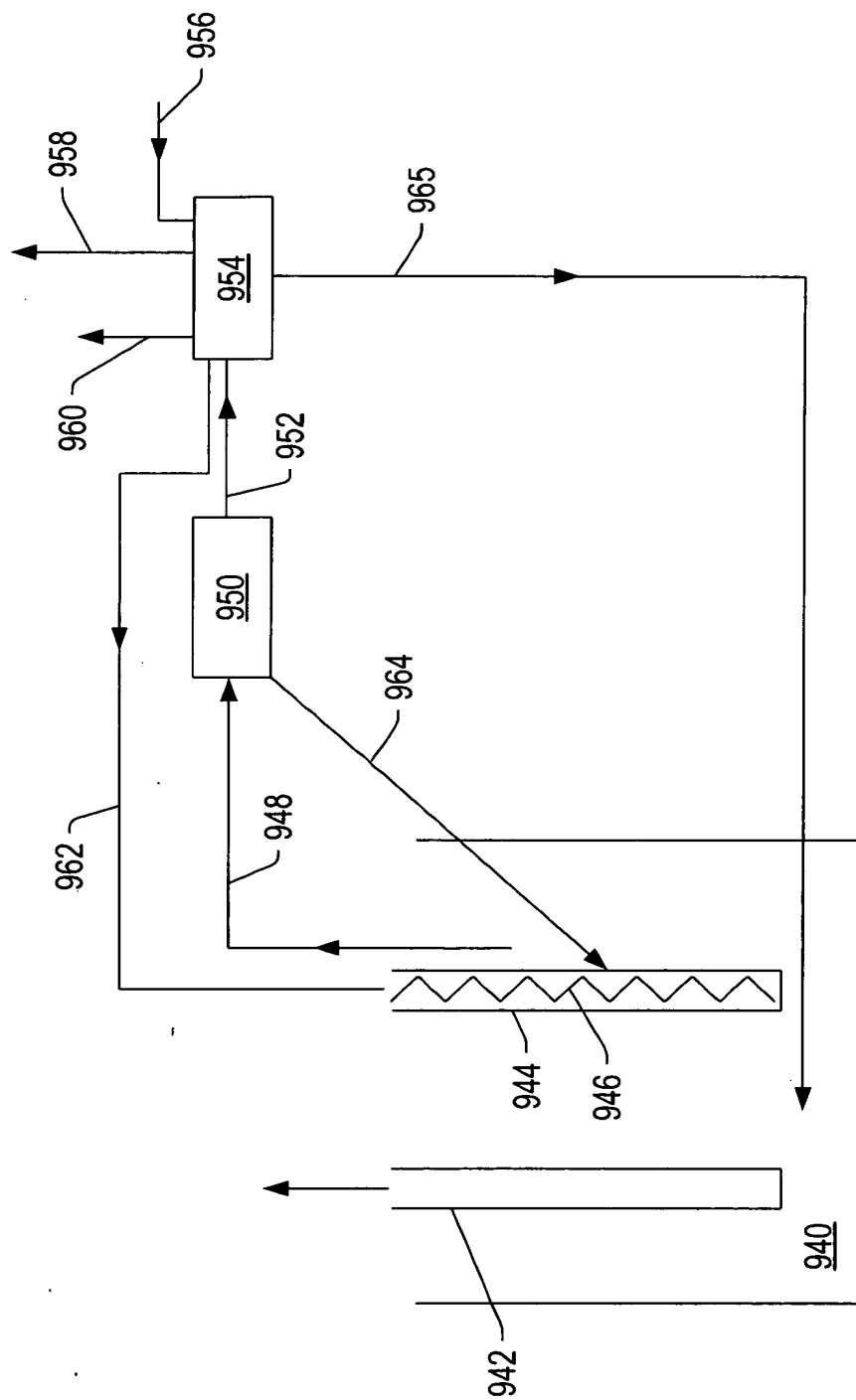


FIG. 34

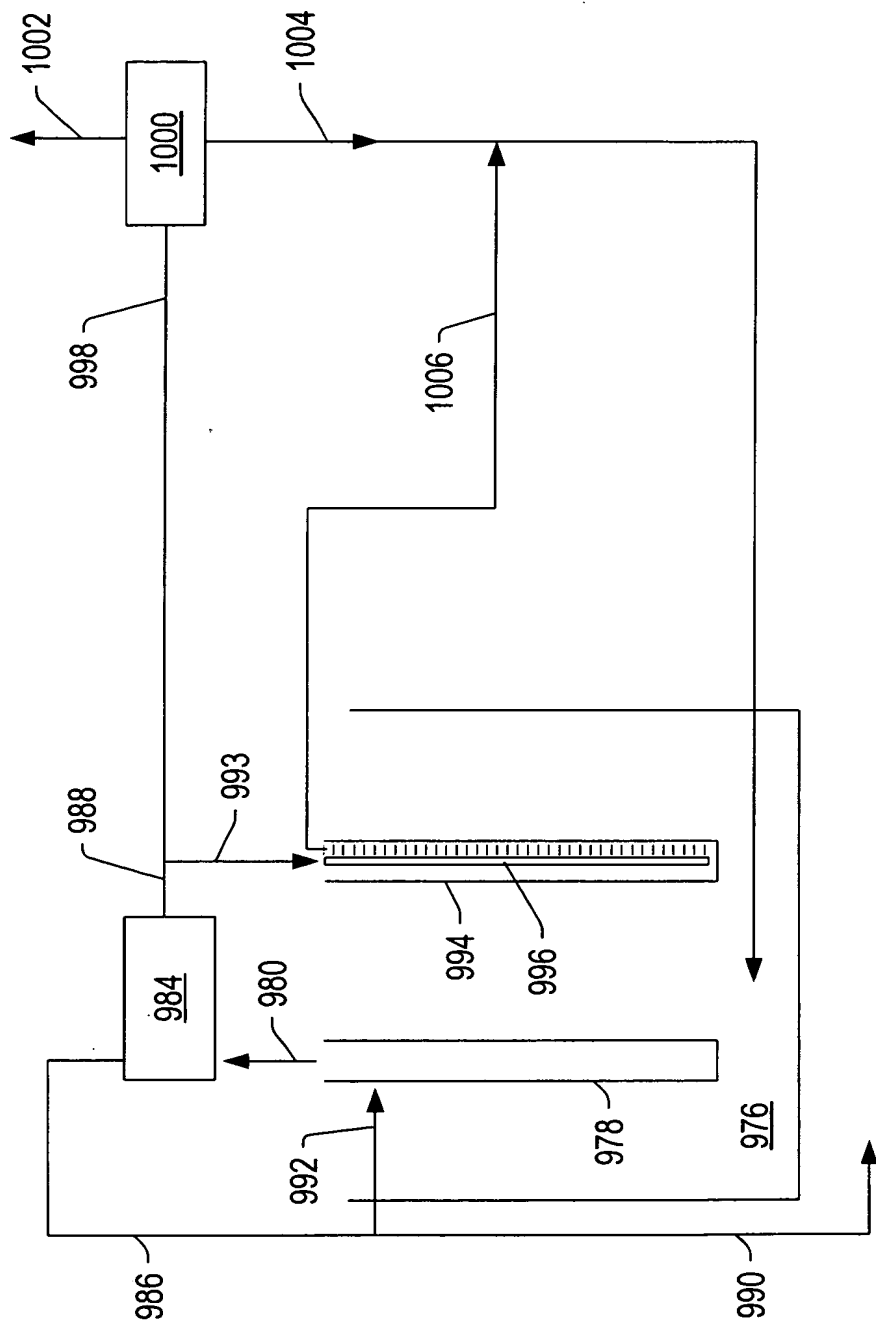


FIG. 35

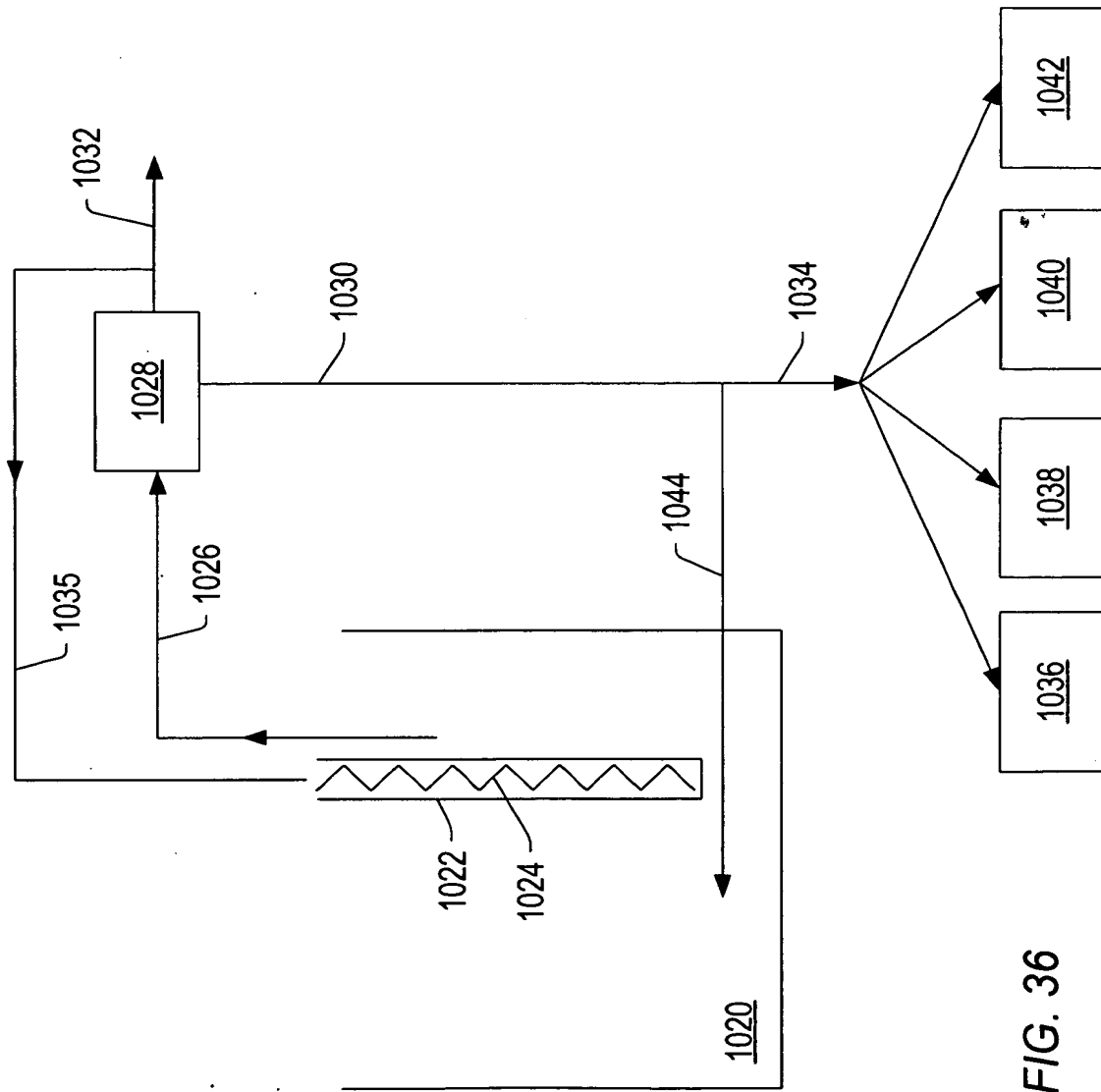


FIG. 36

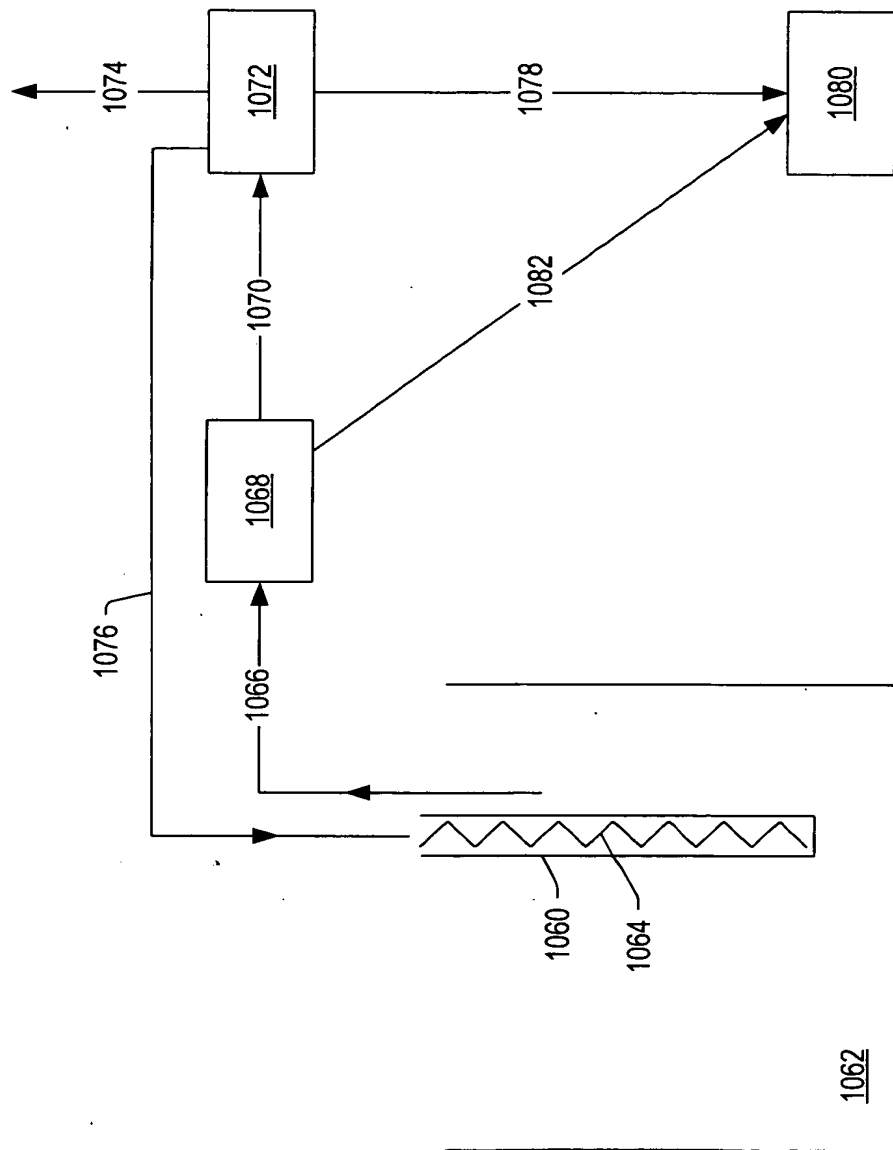


FIG. 37

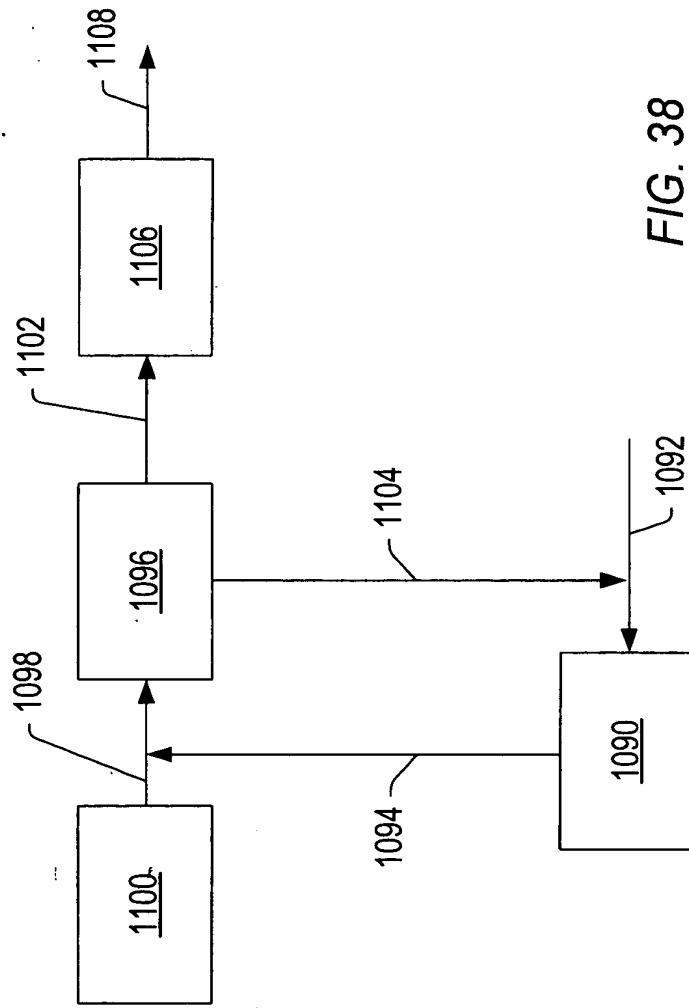


FIG. 38

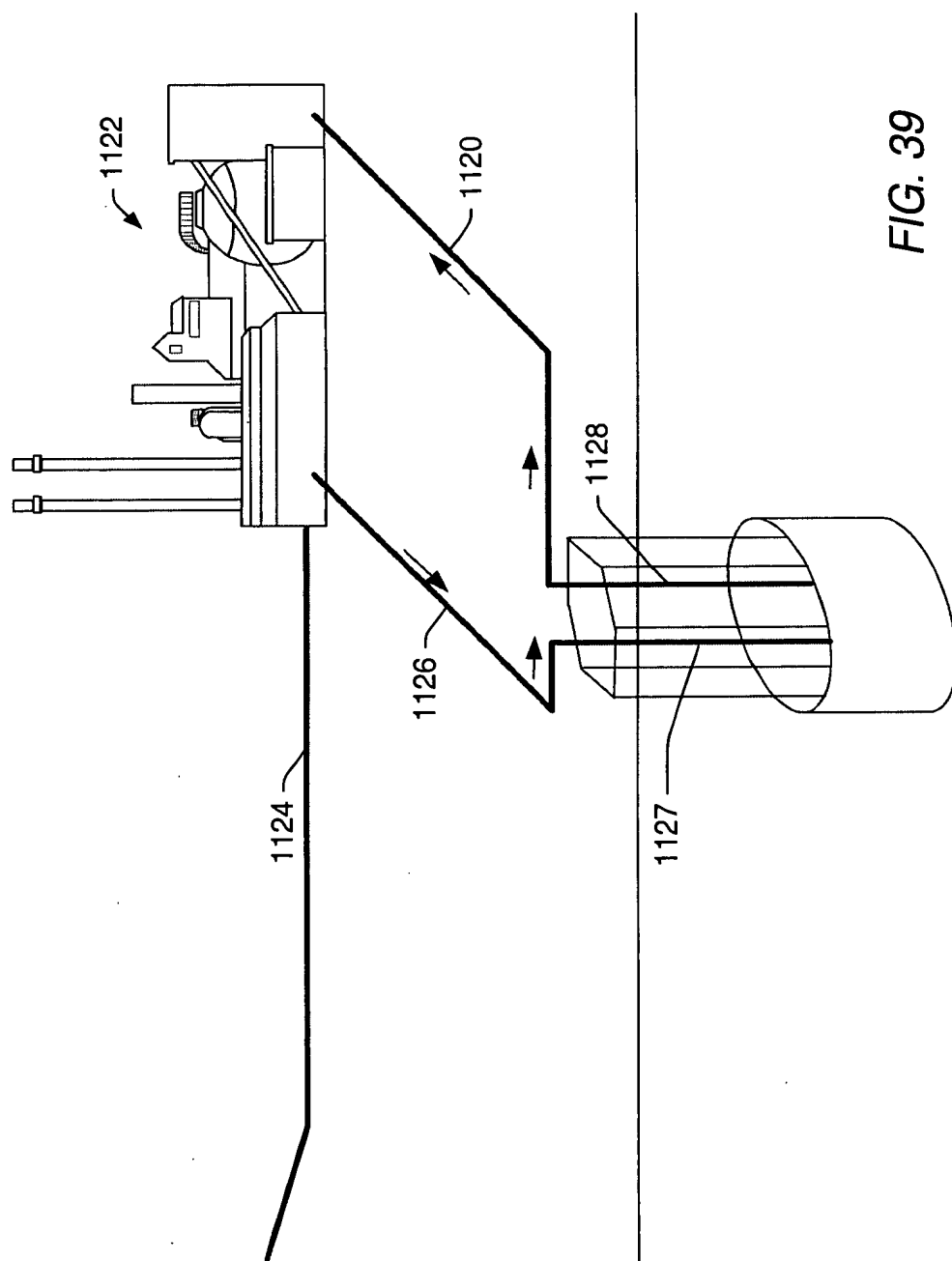


FIG. 39

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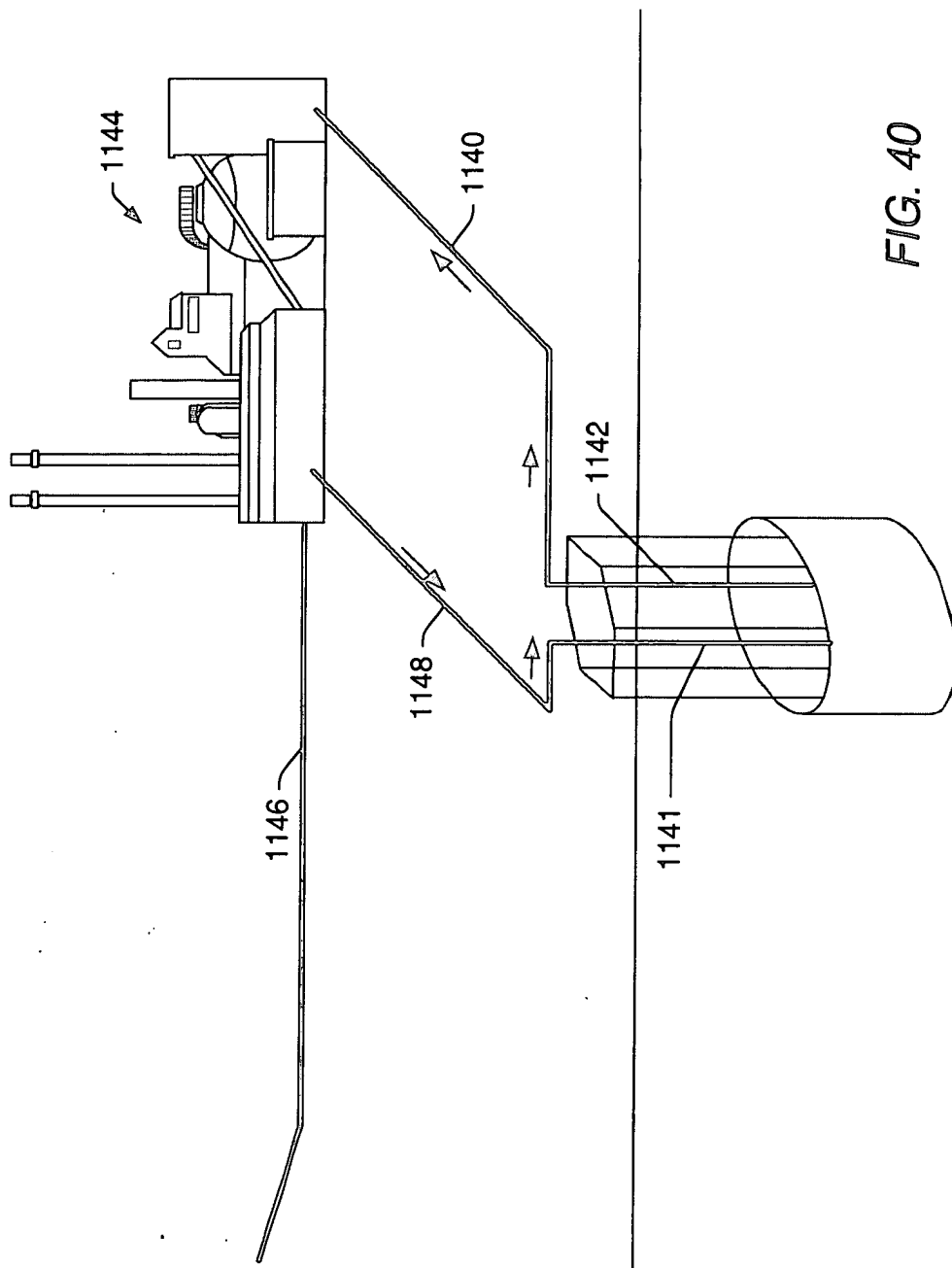


FIG. 40

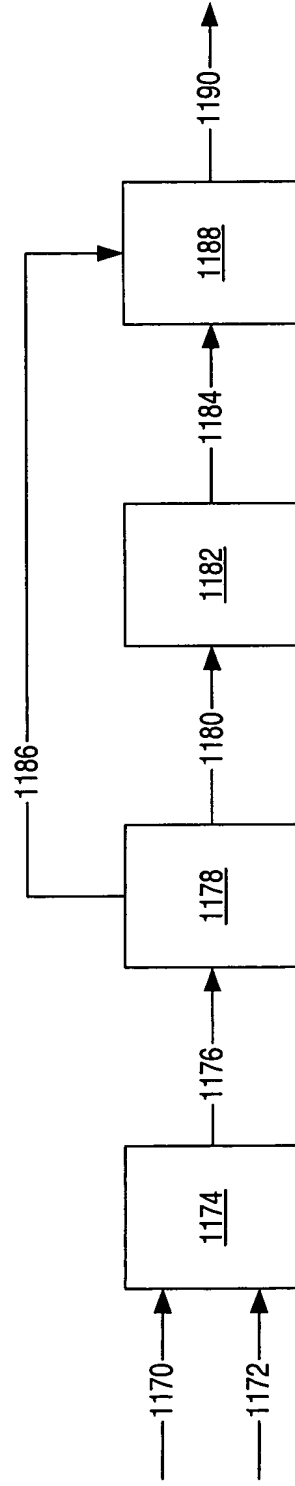


FIG. 41

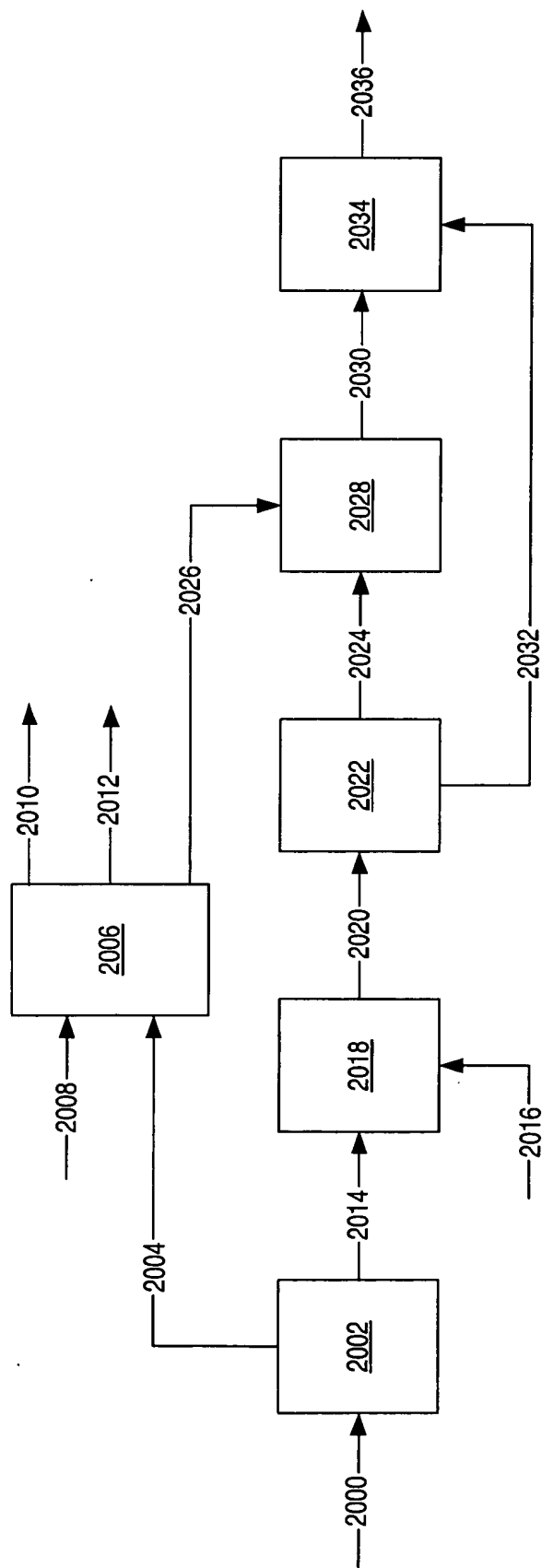


FIG. 42

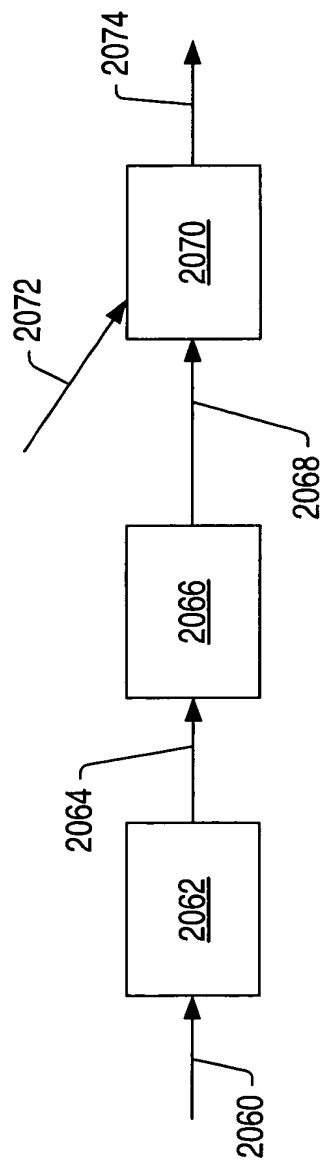


FIG. 43

FIG. 44

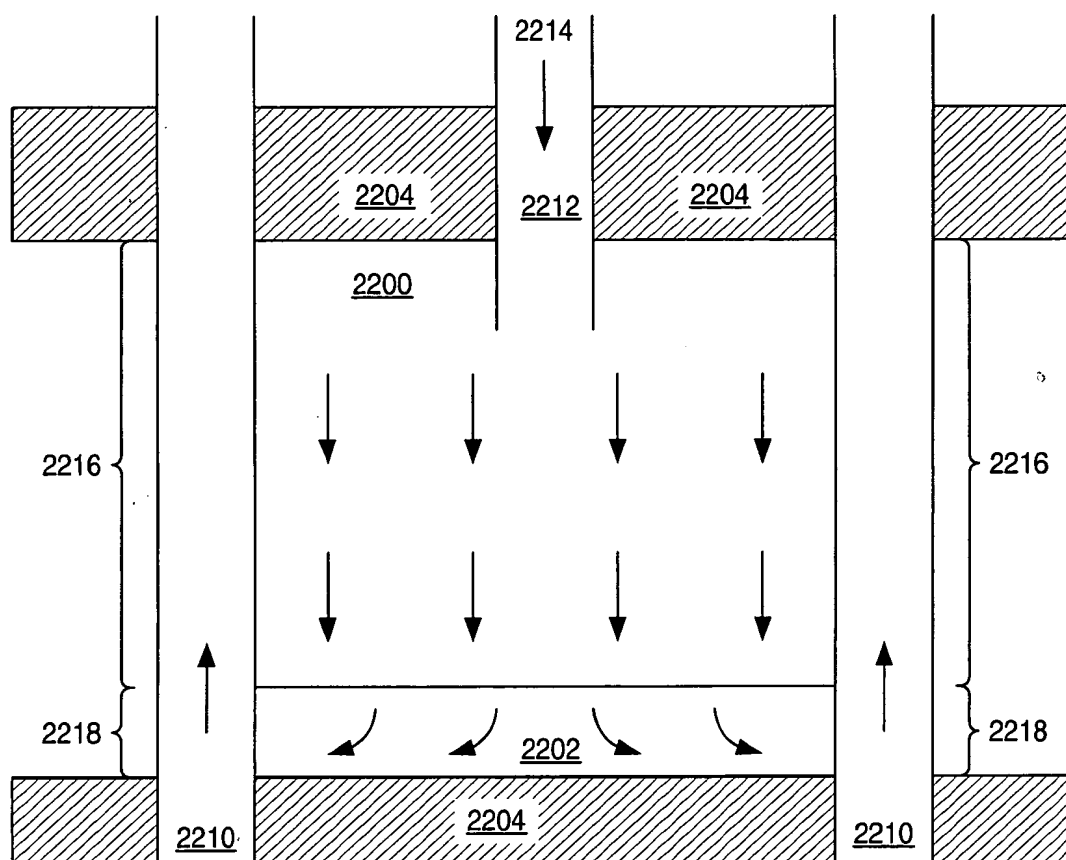


FIG. 44

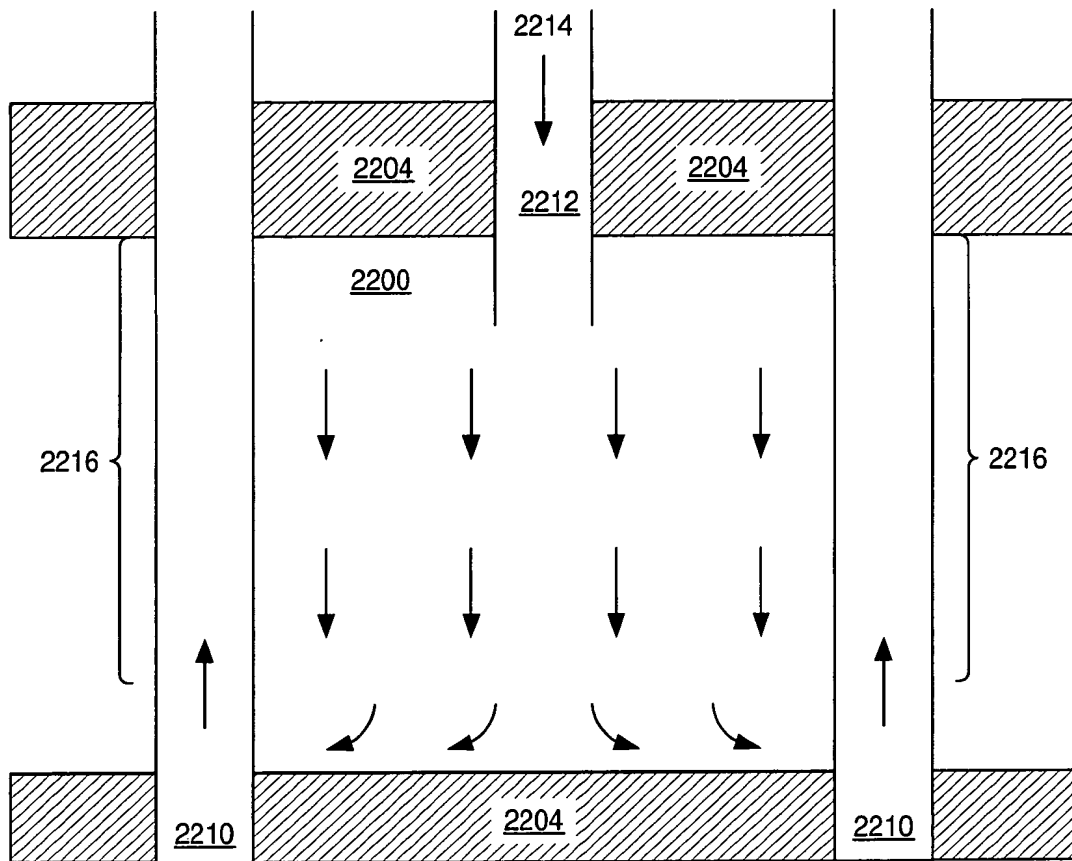


FIG. 45

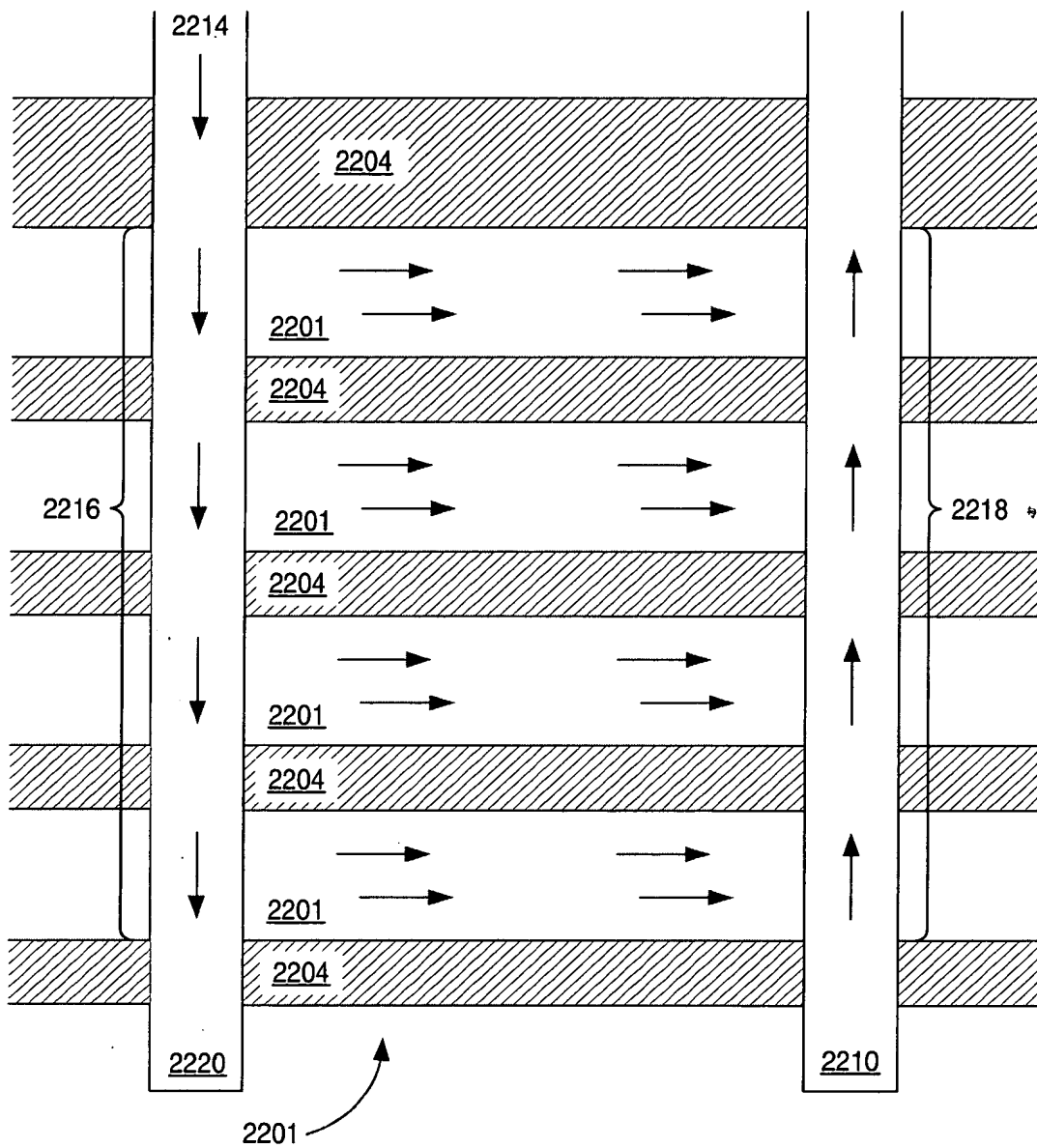


FIG. 46

FIG. 47

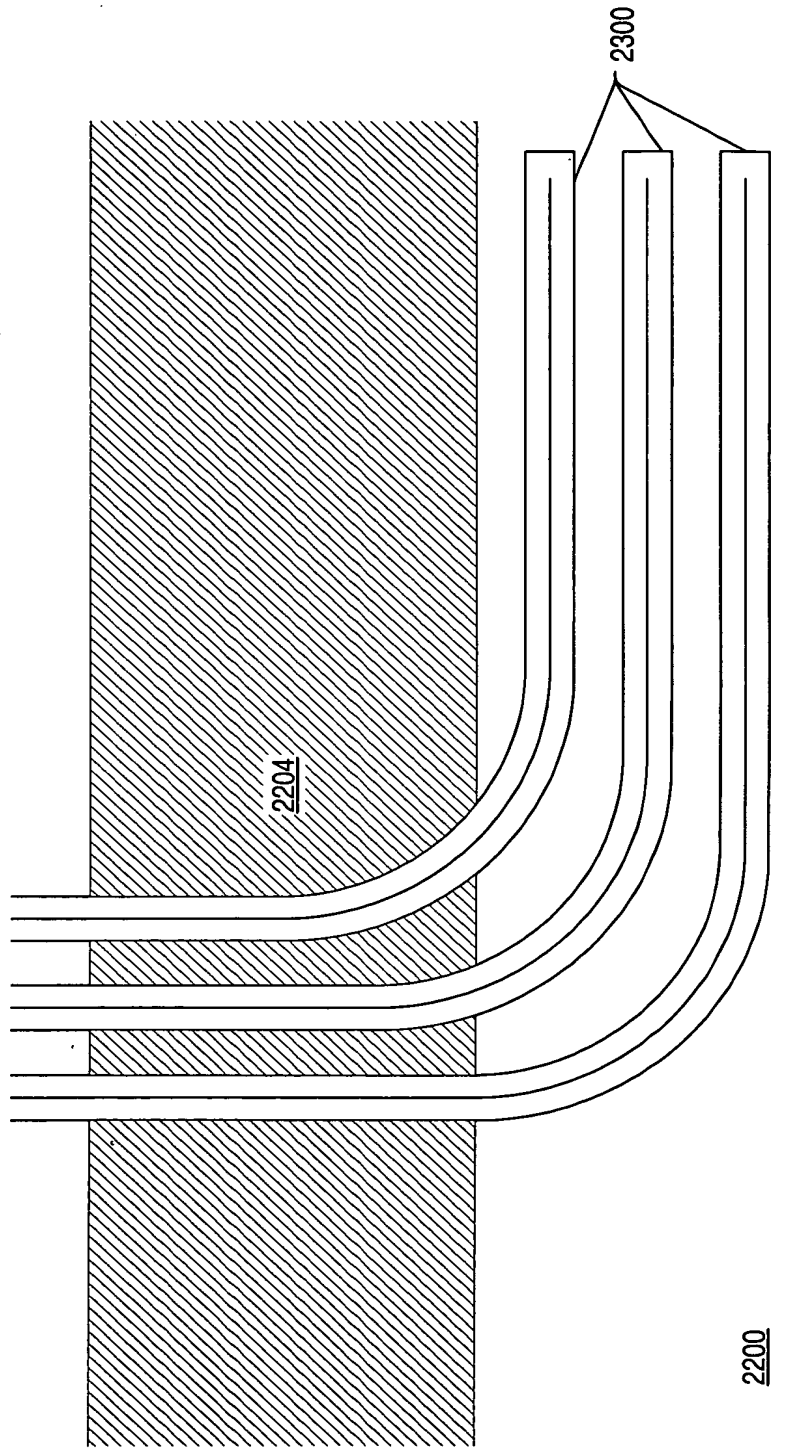


FIG. 47

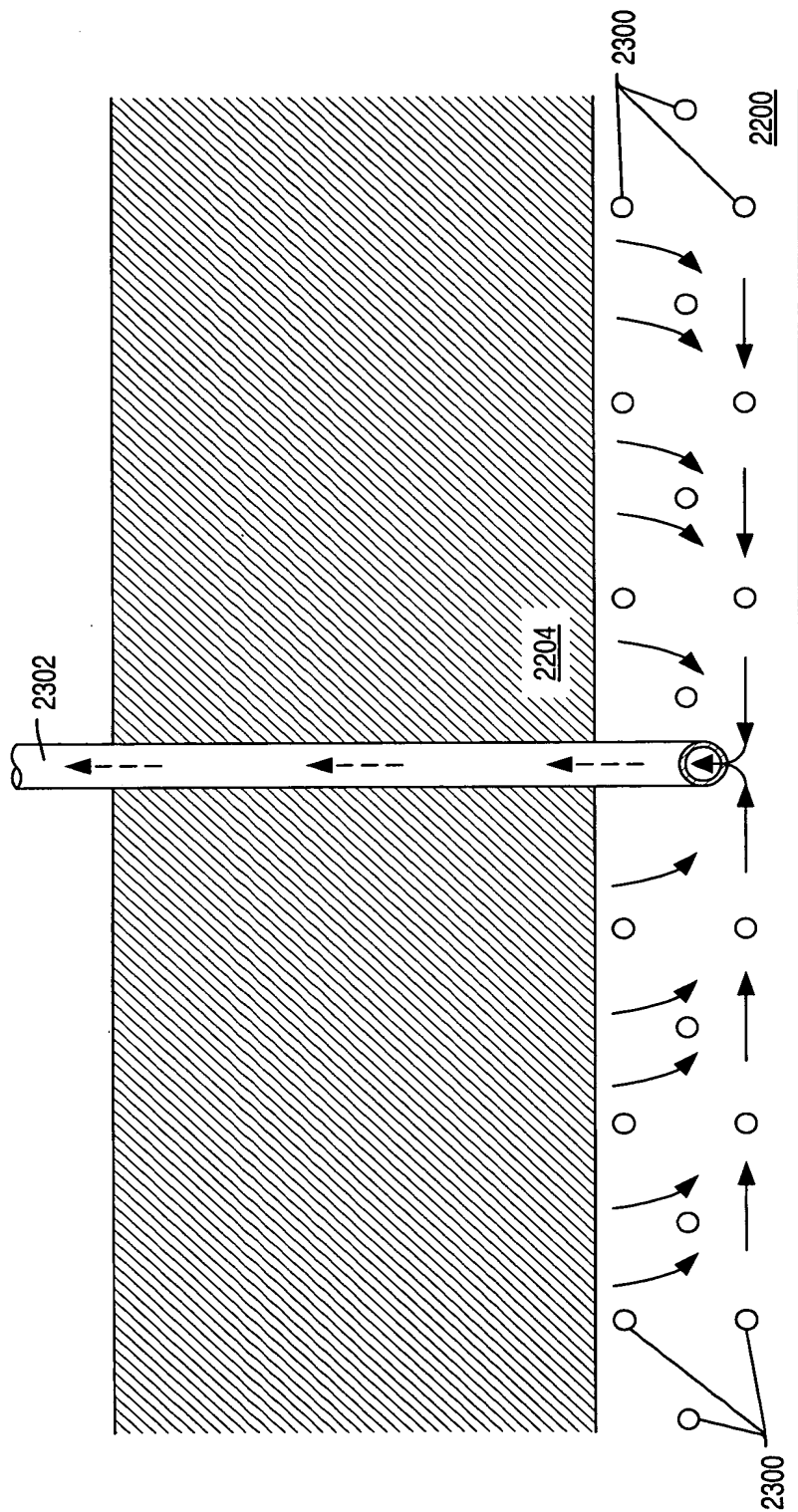


FIG. 48

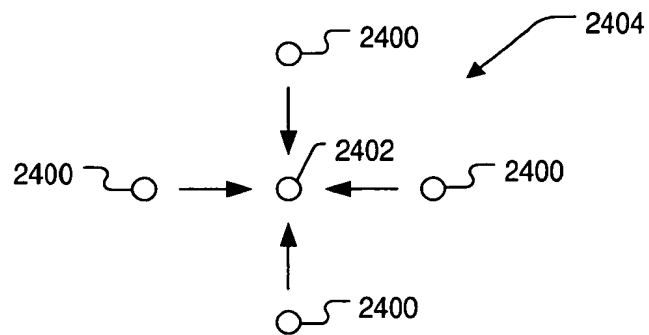


FIG. 49

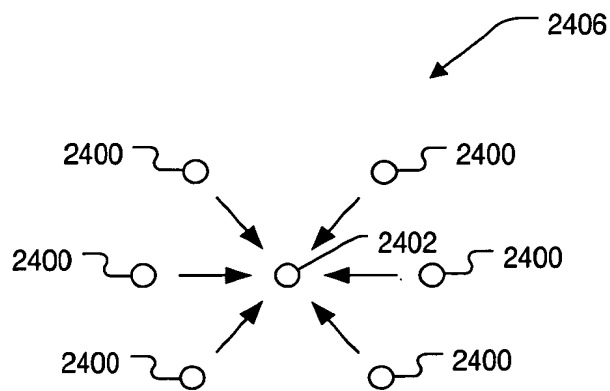


FIG. 50

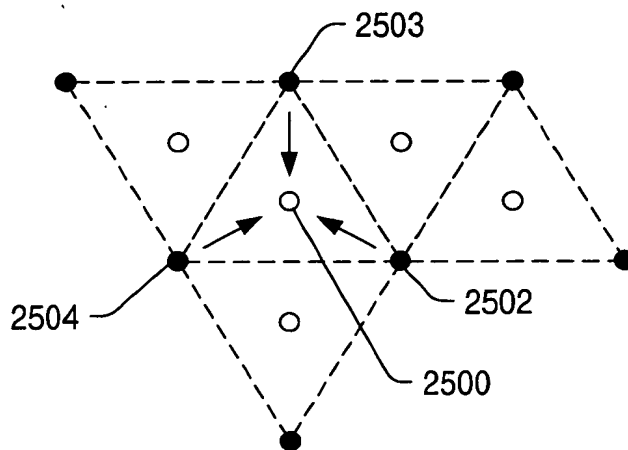


FIG. 51

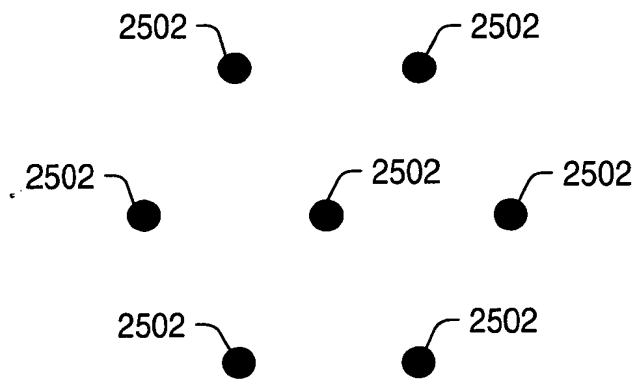


FIG. 52

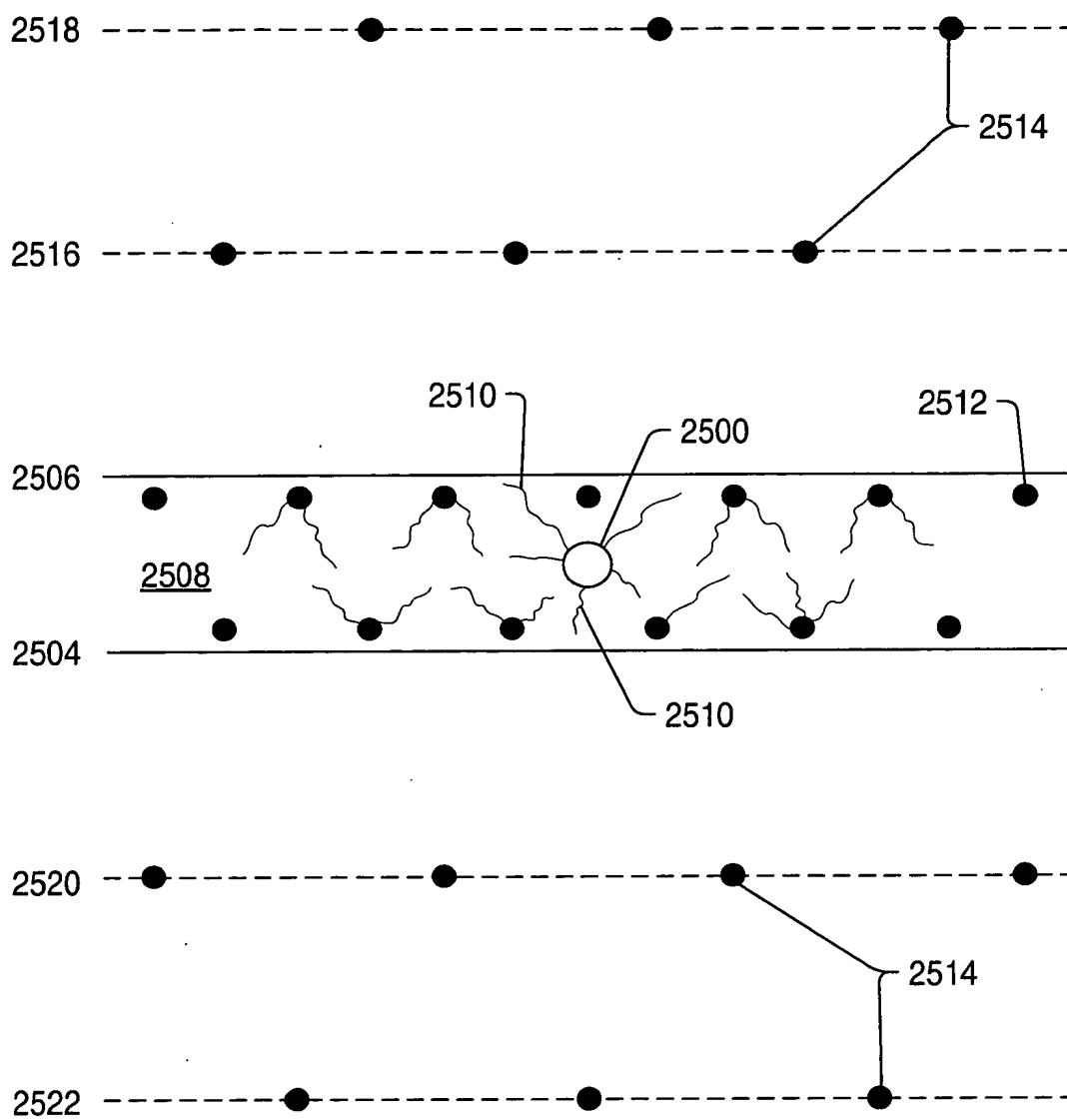


FIG. 53

FIG. 54

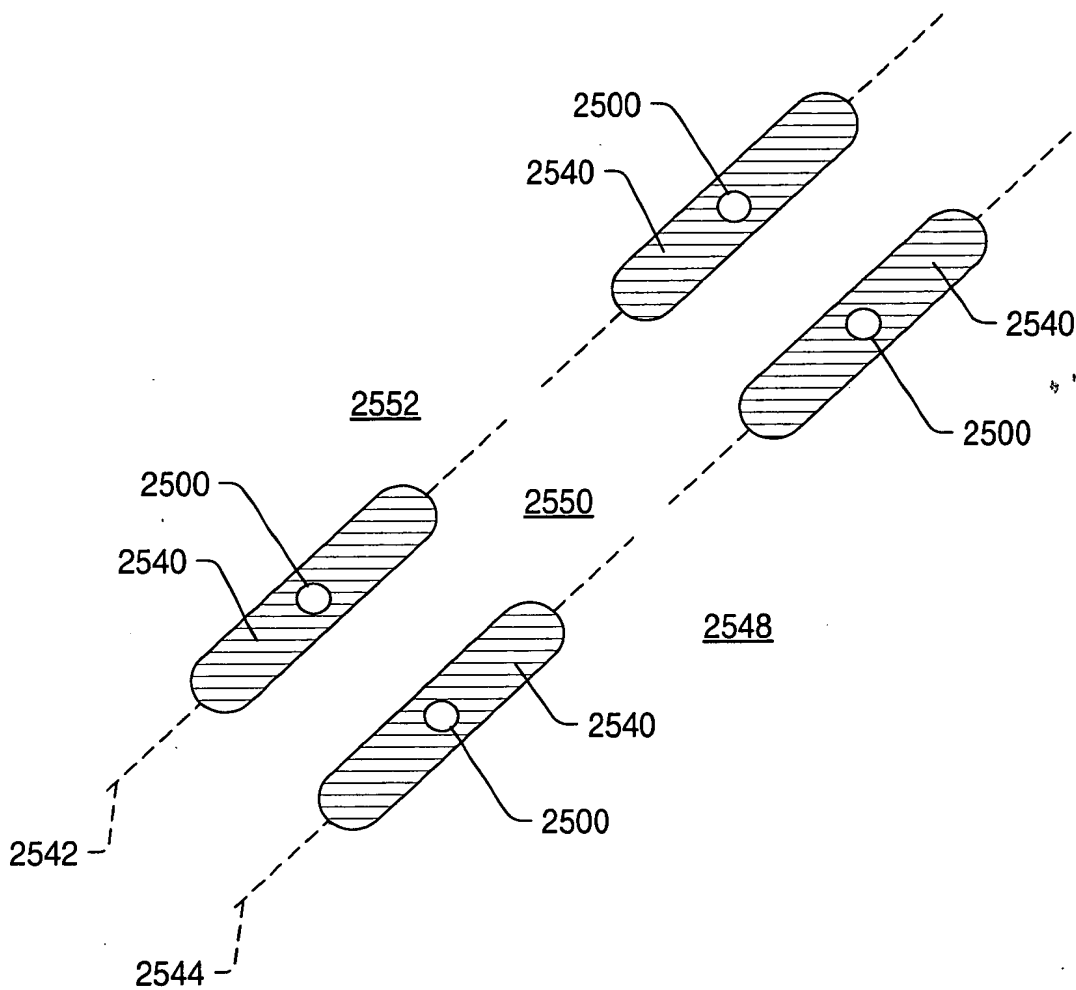


FIG. 54

FIG. 55

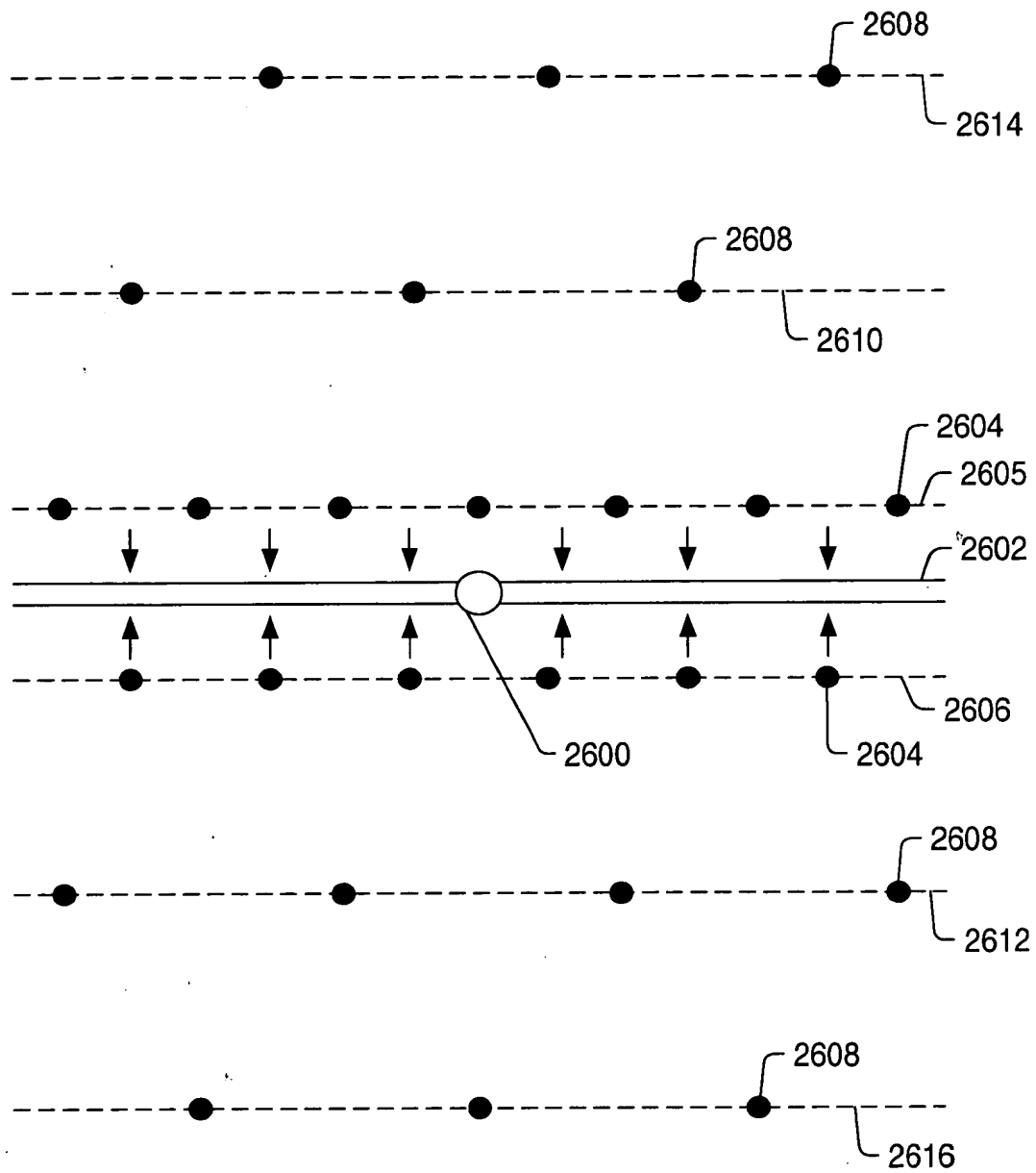


FIG. 55

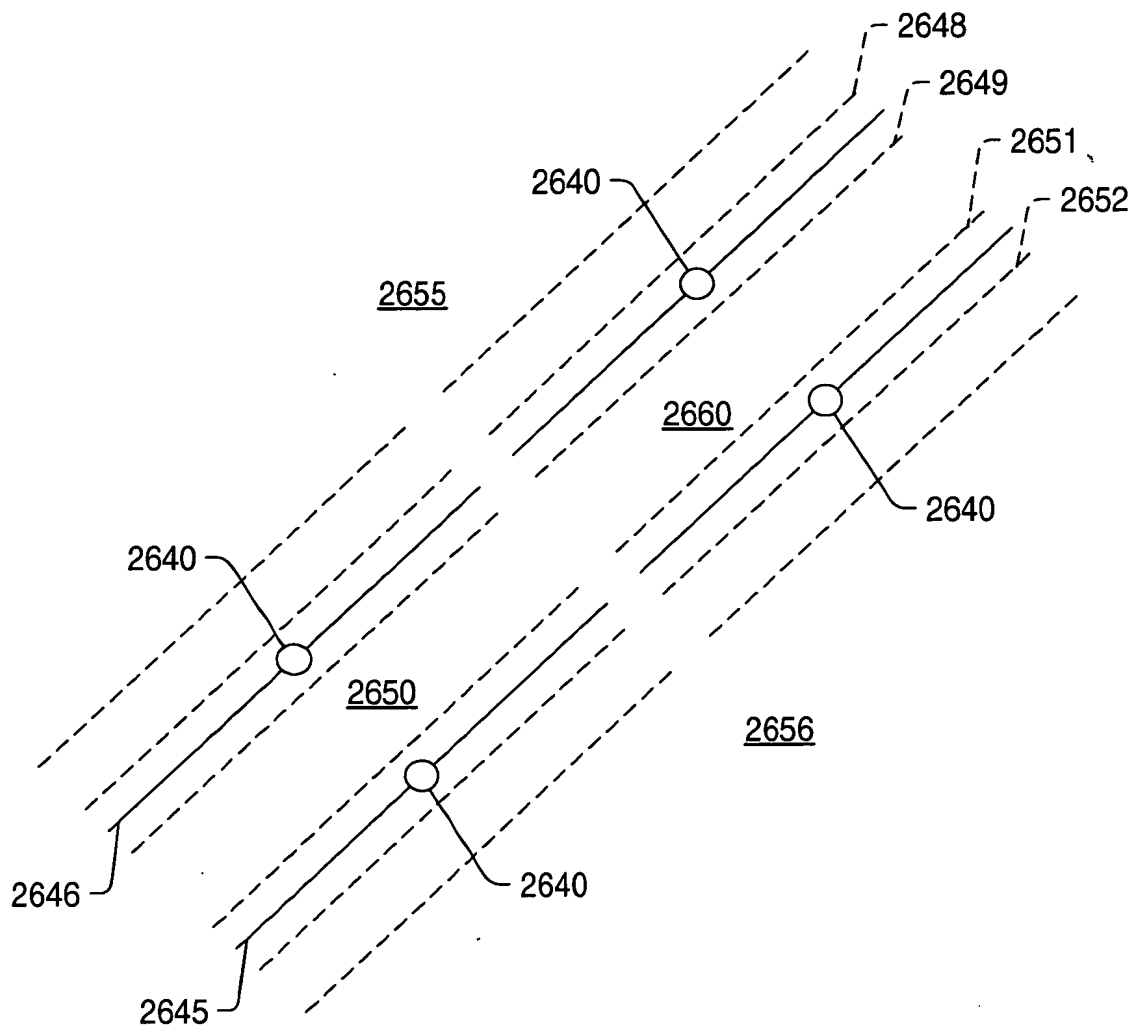


FIG. 56

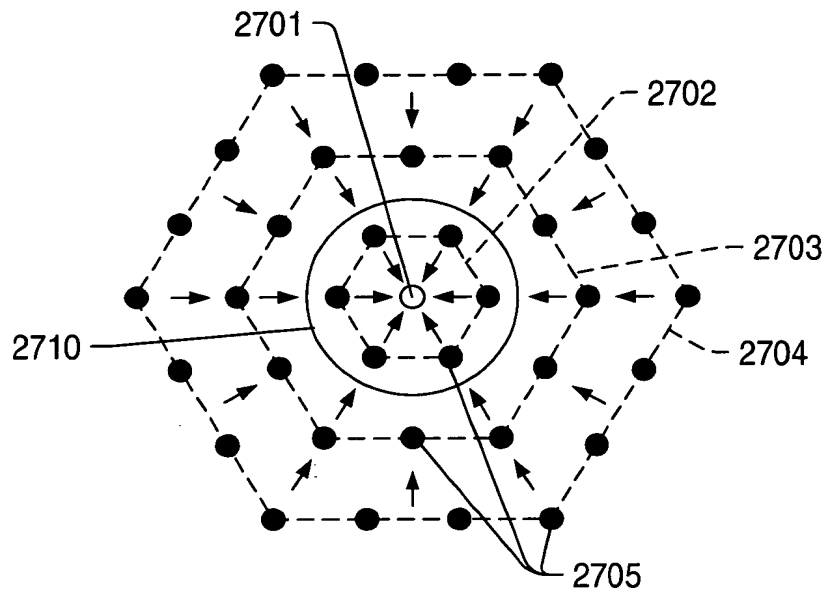


FIG. 57

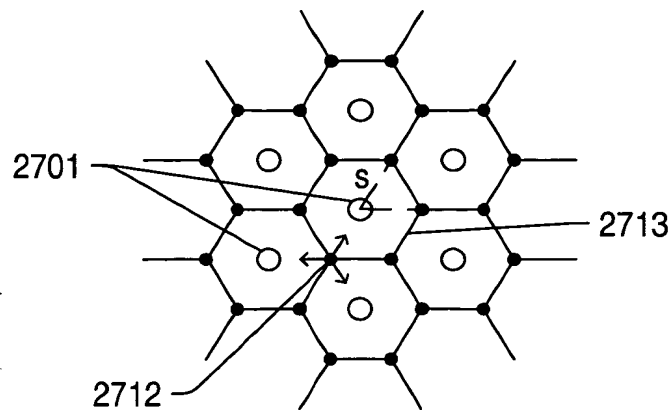


FIG. 58

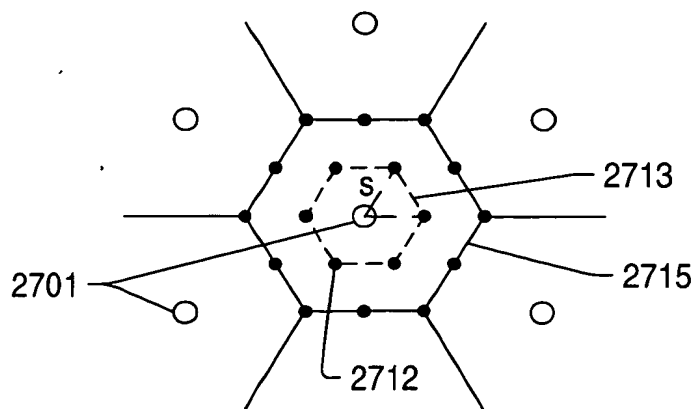


FIG. 59

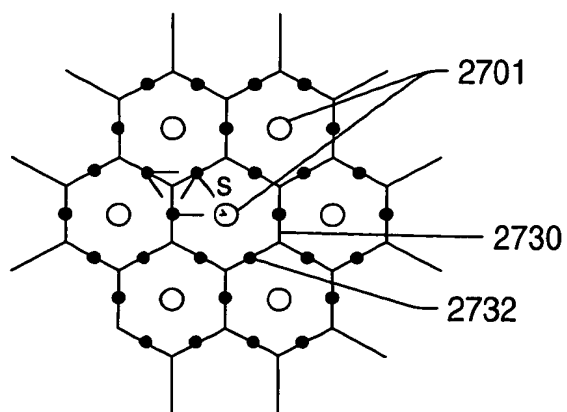


FIG. 62

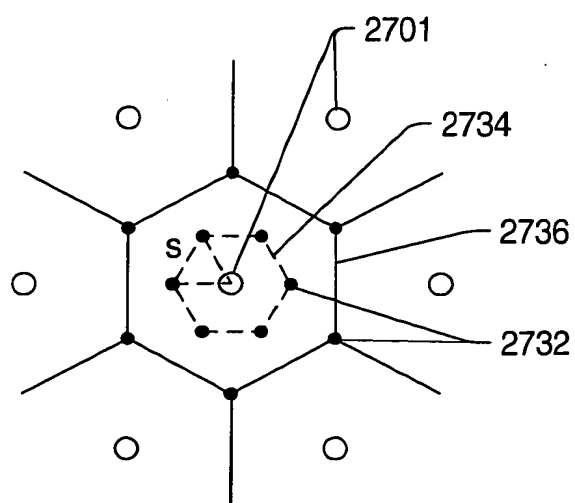


FIG. 63

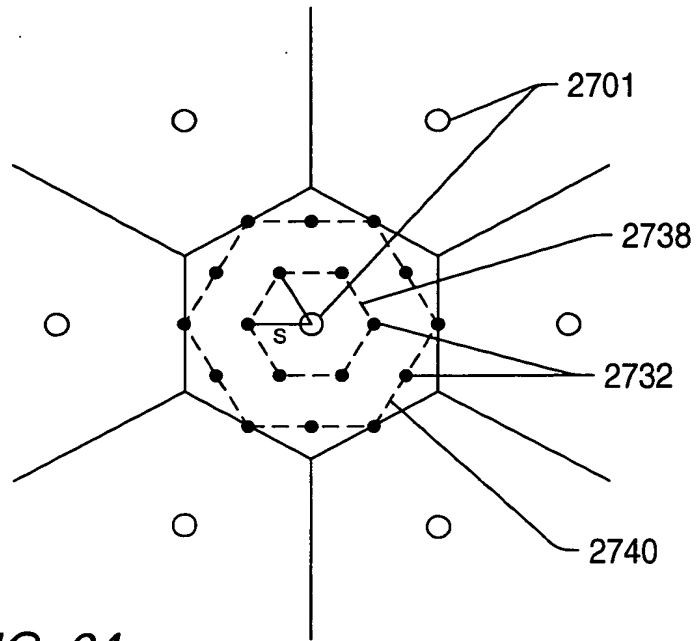


FIG. 64

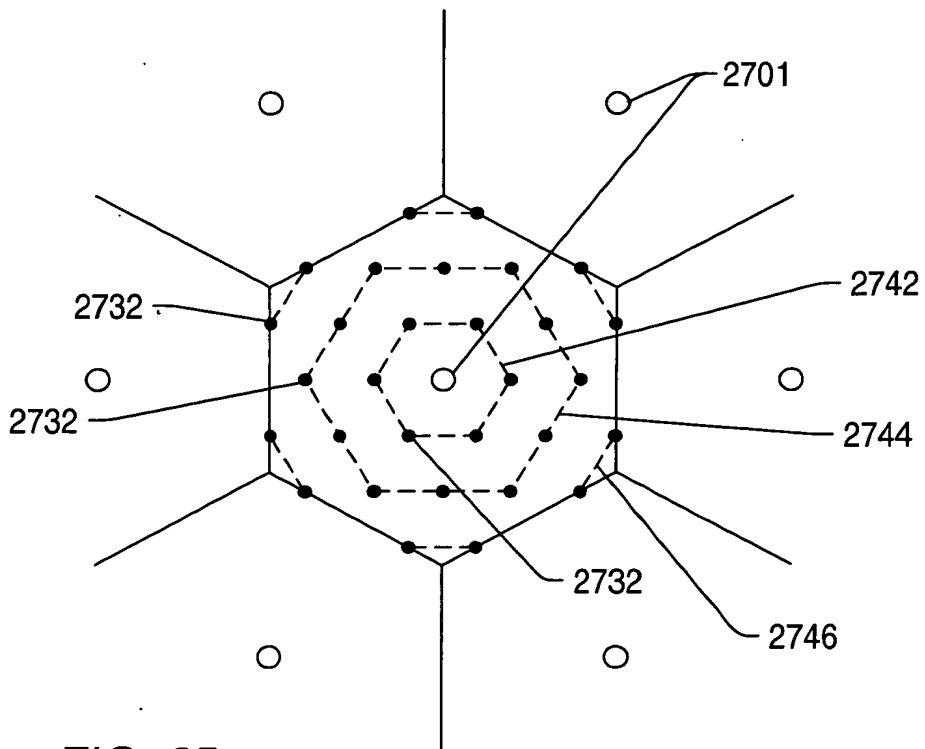


FIG. 65

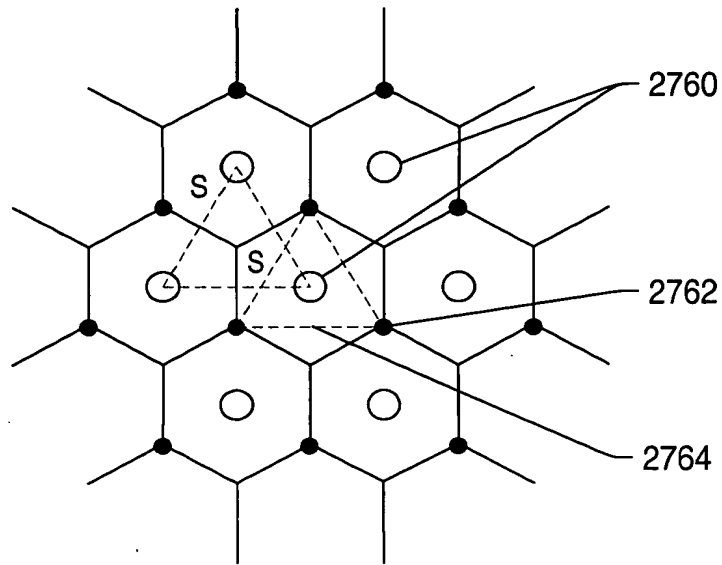


FIG. 66

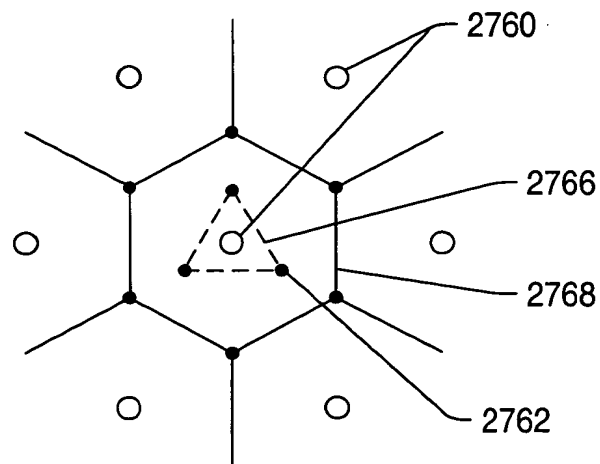


FIG. 67

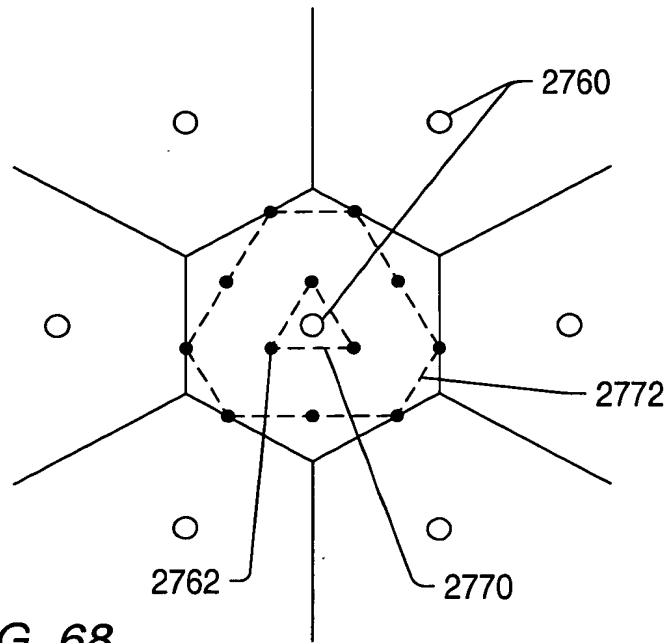


FIG. 68

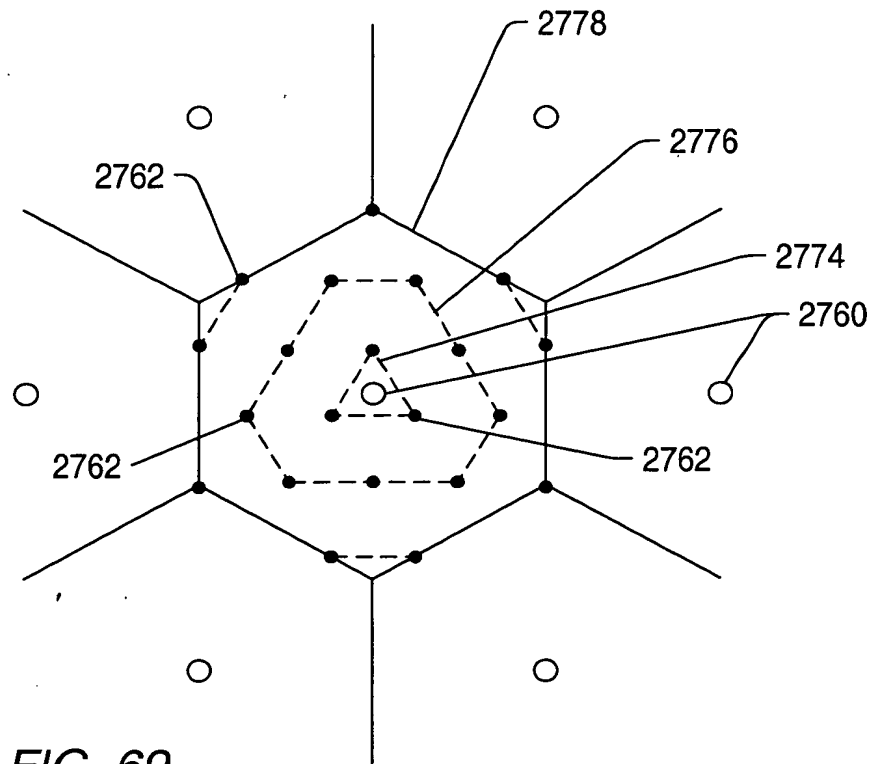


FIG. 69

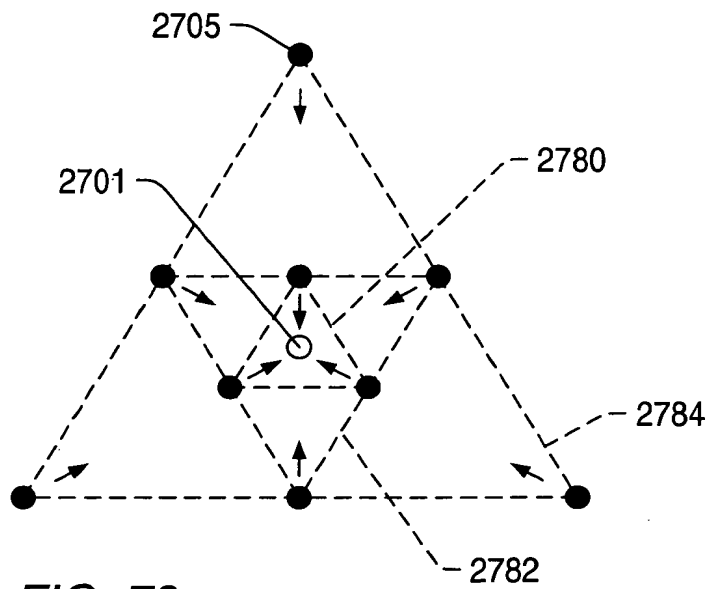


FIG. 70

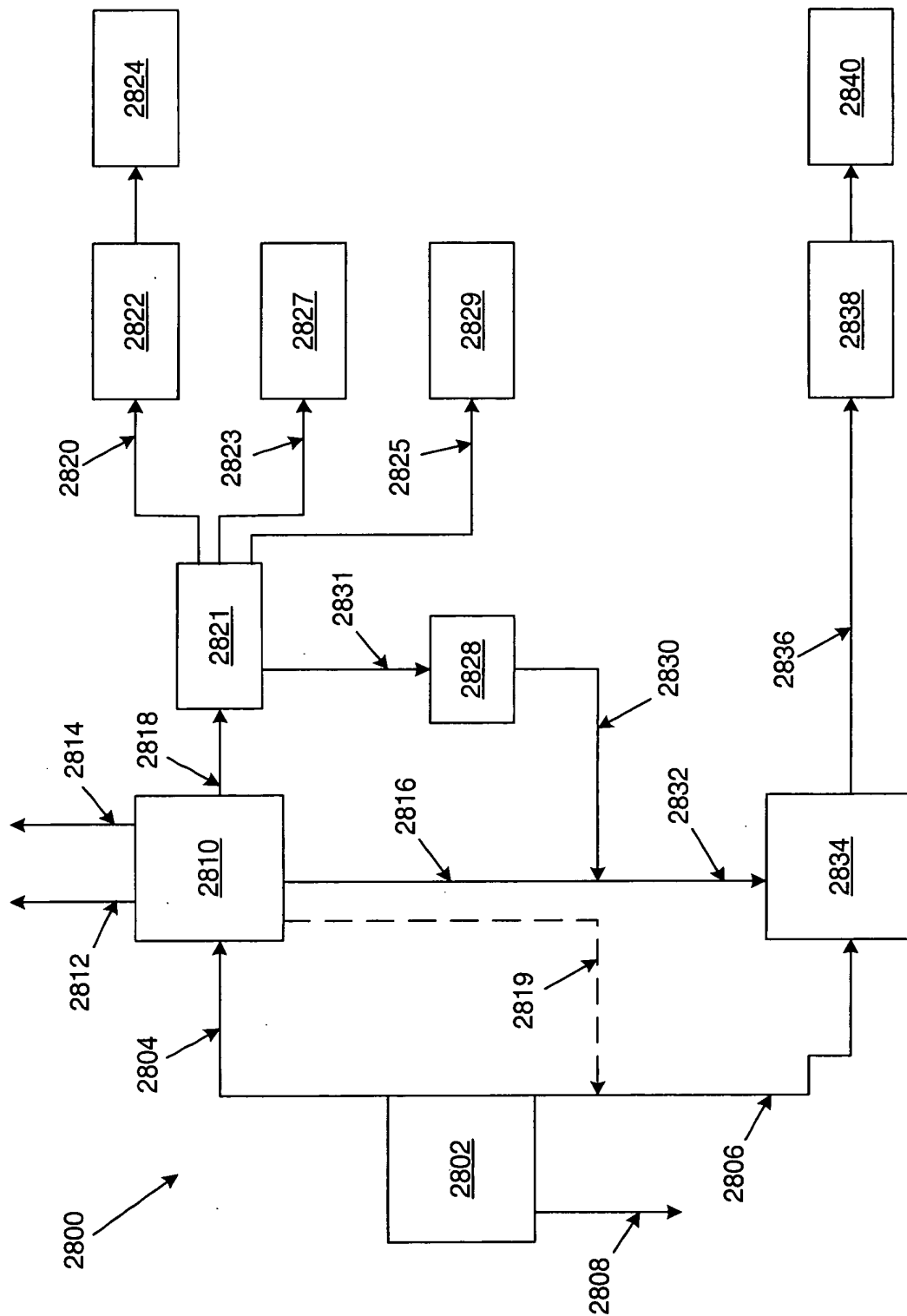


Fig. 71

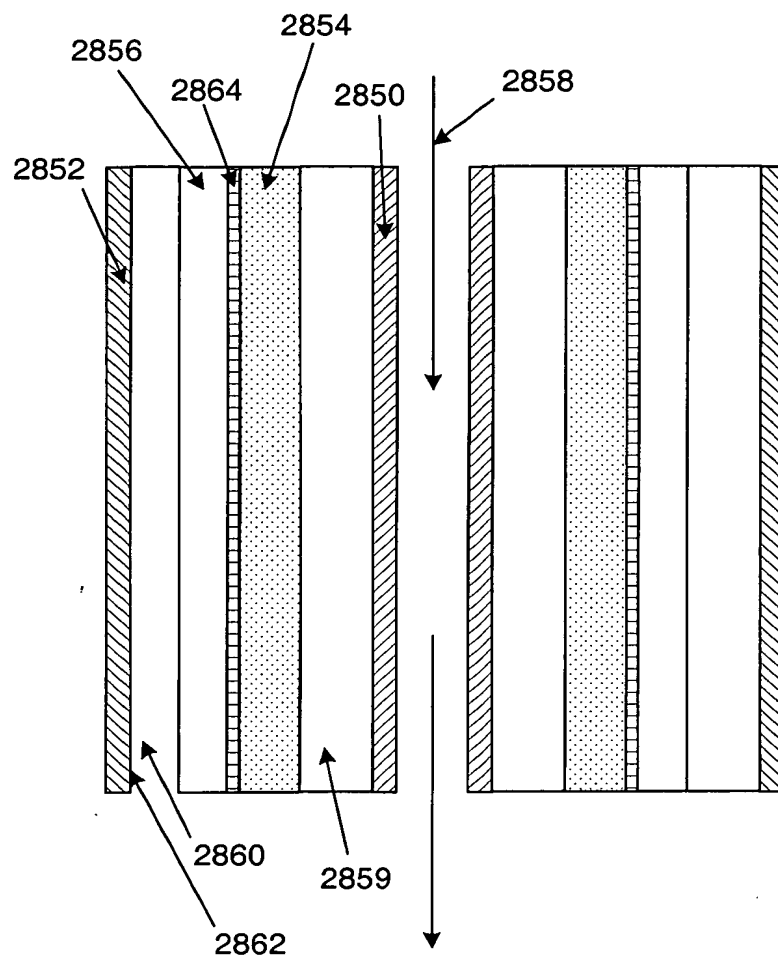


Fig. 72

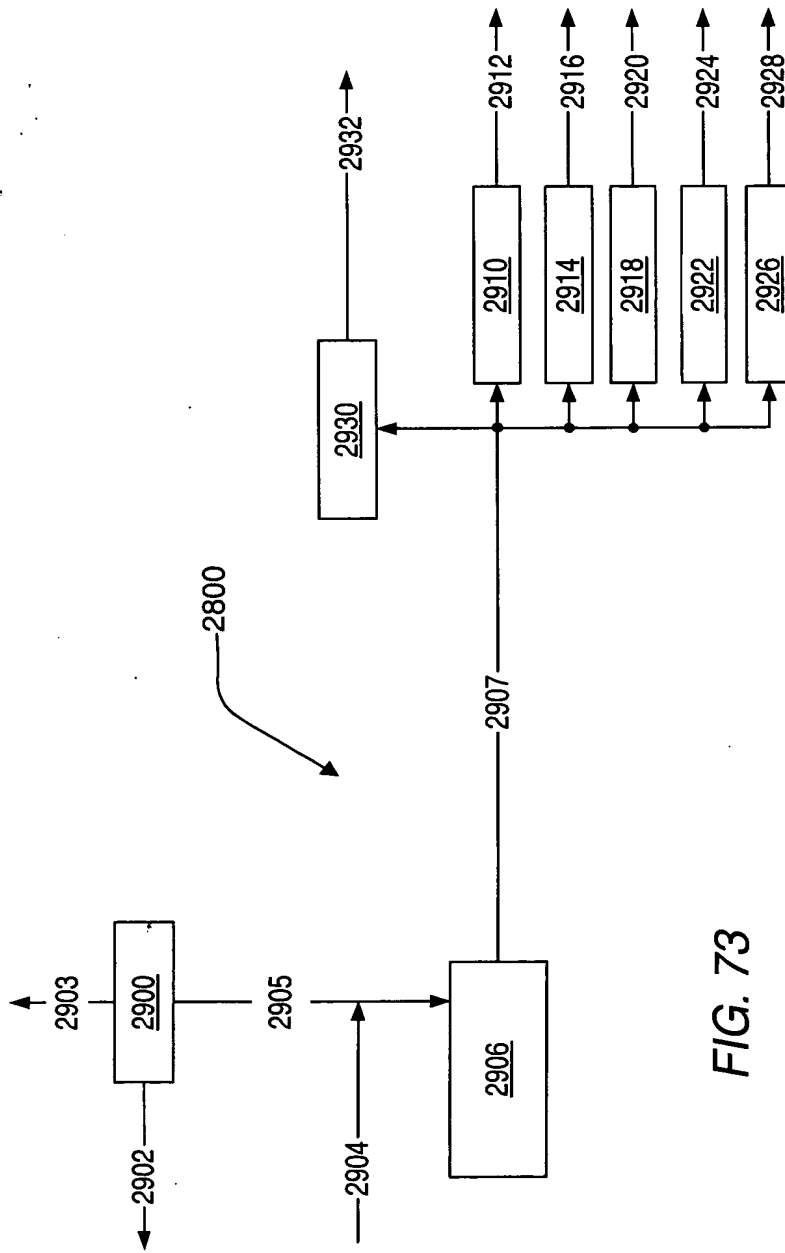


FIG. 73

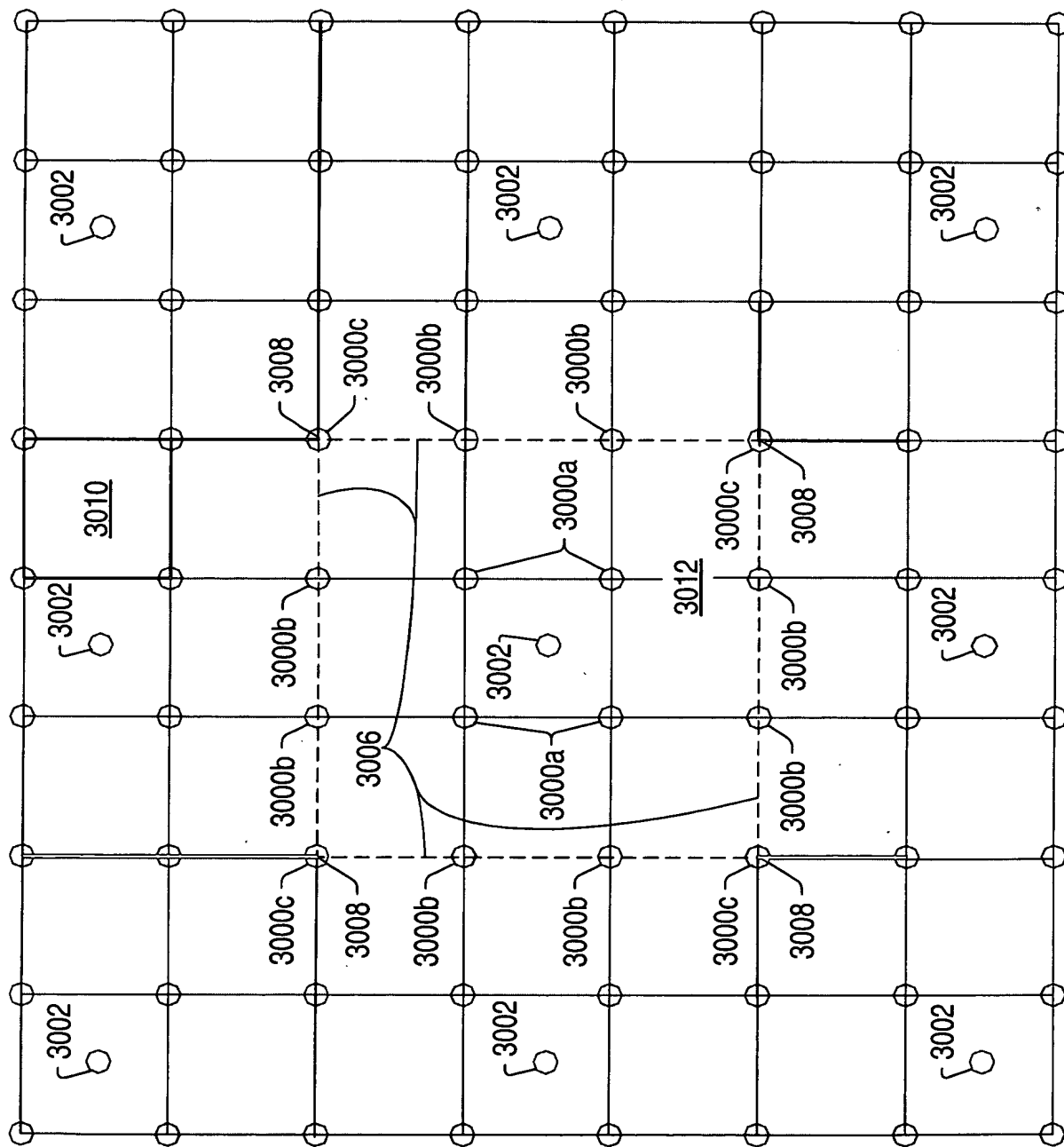


FIG. 74

FIG. 75

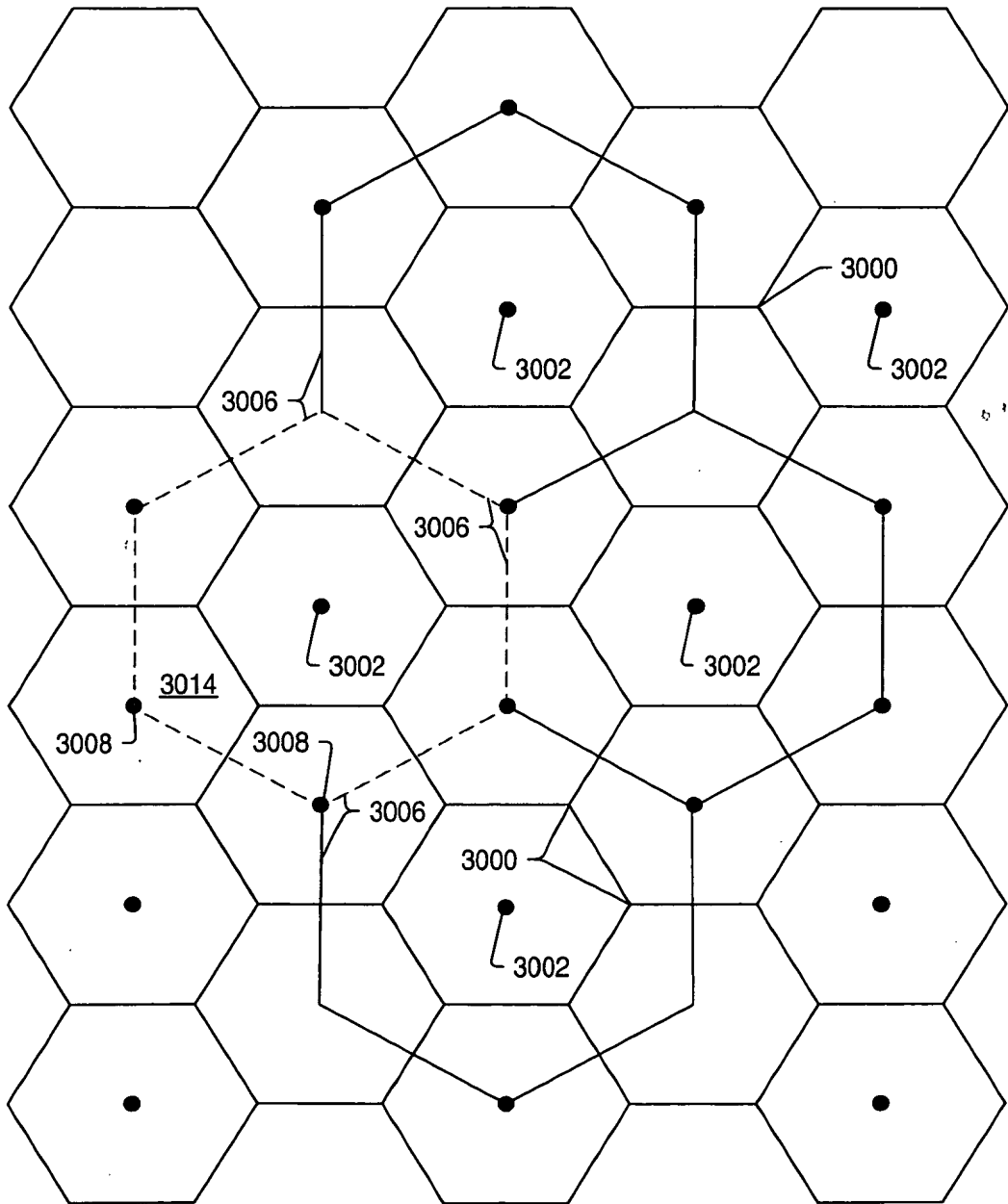


FIG. 75

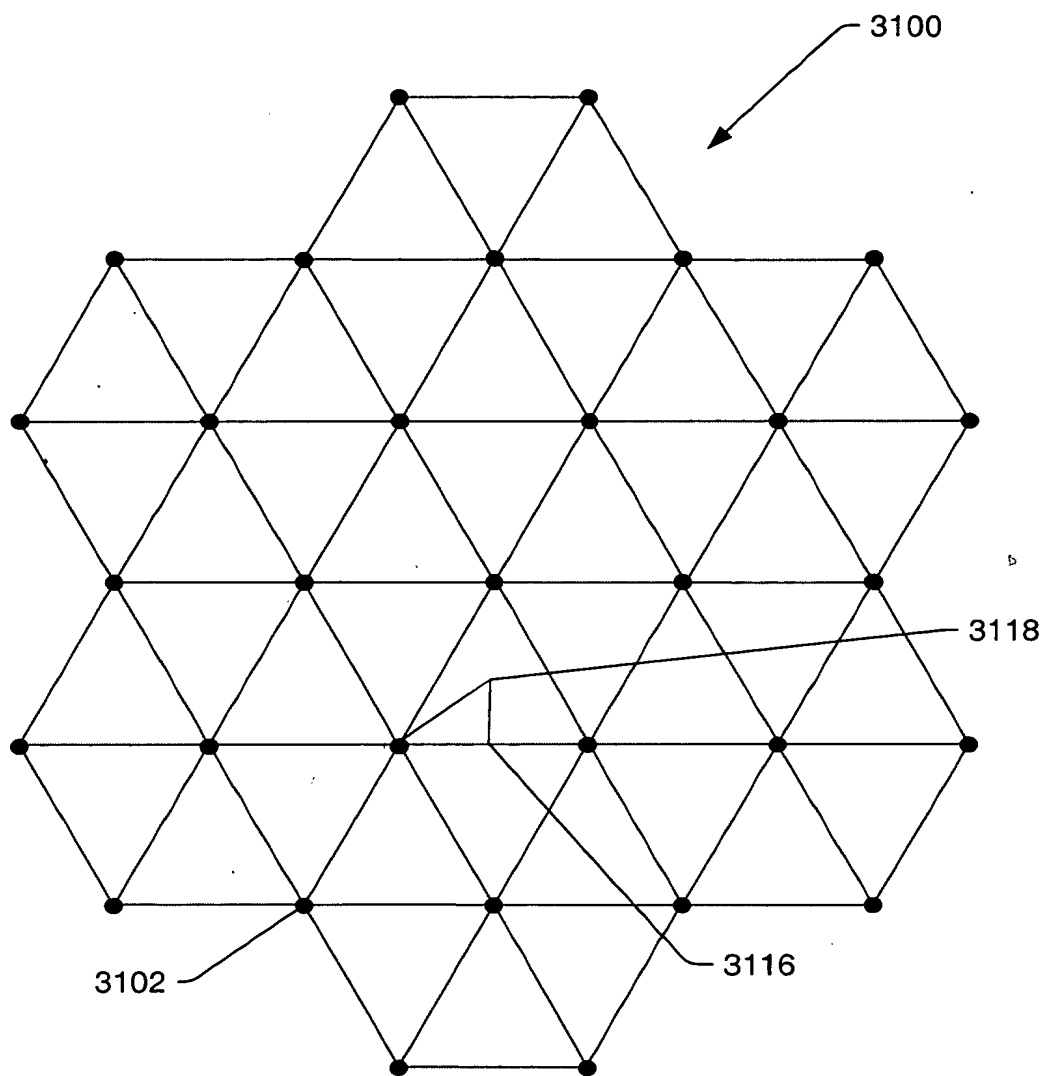


FIG. 76

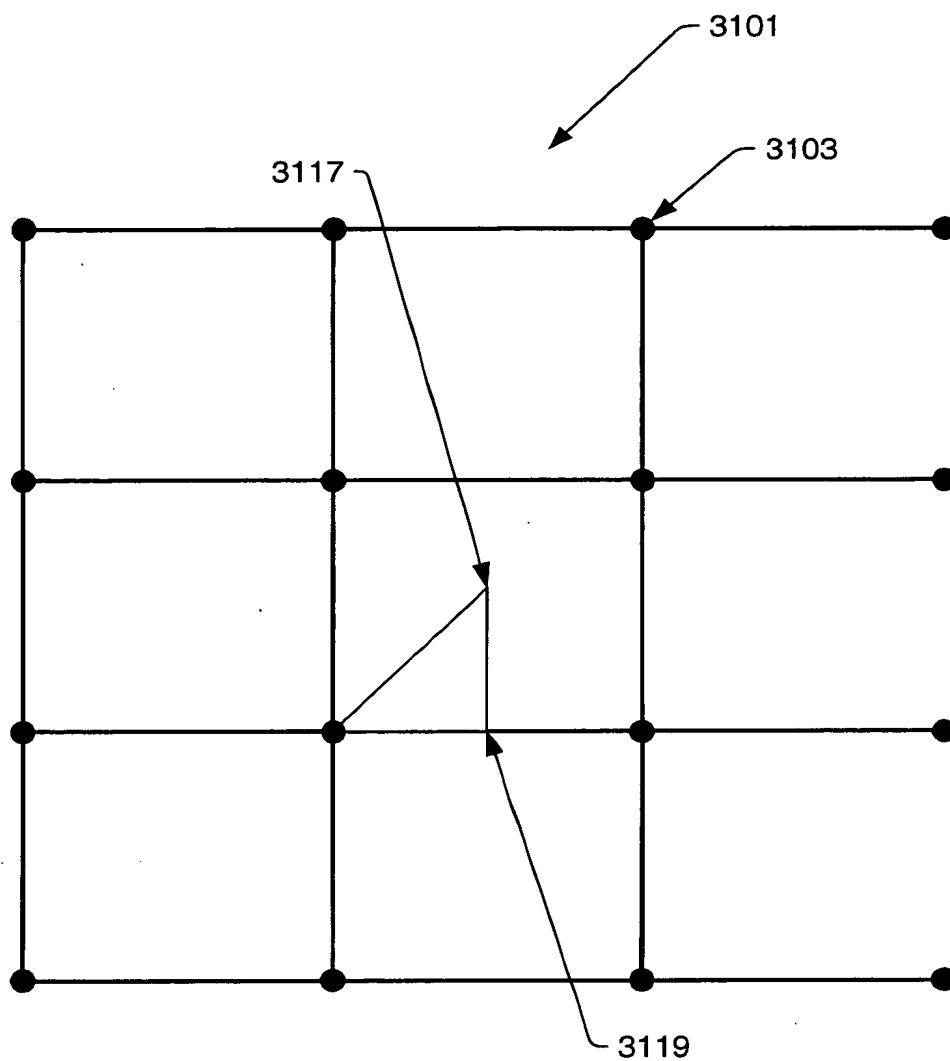


FIG. 76a

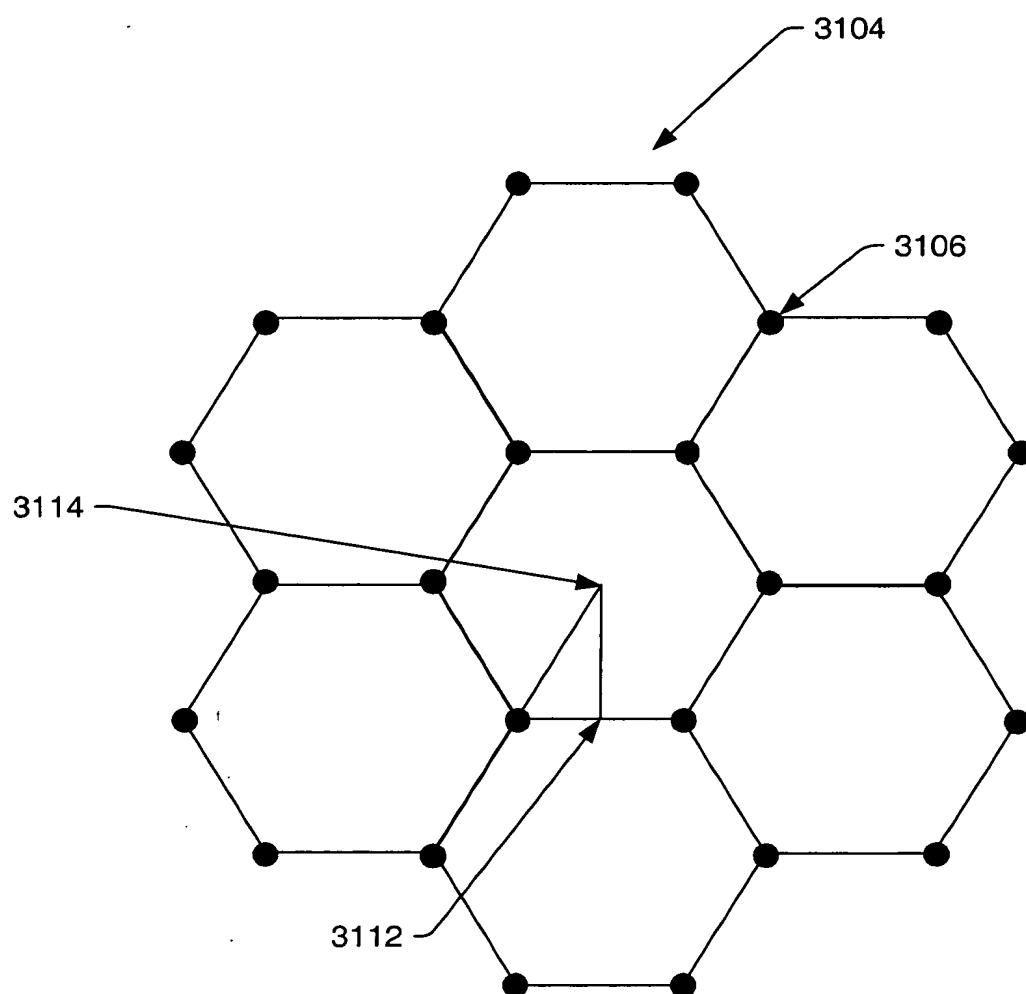


FIG. 77

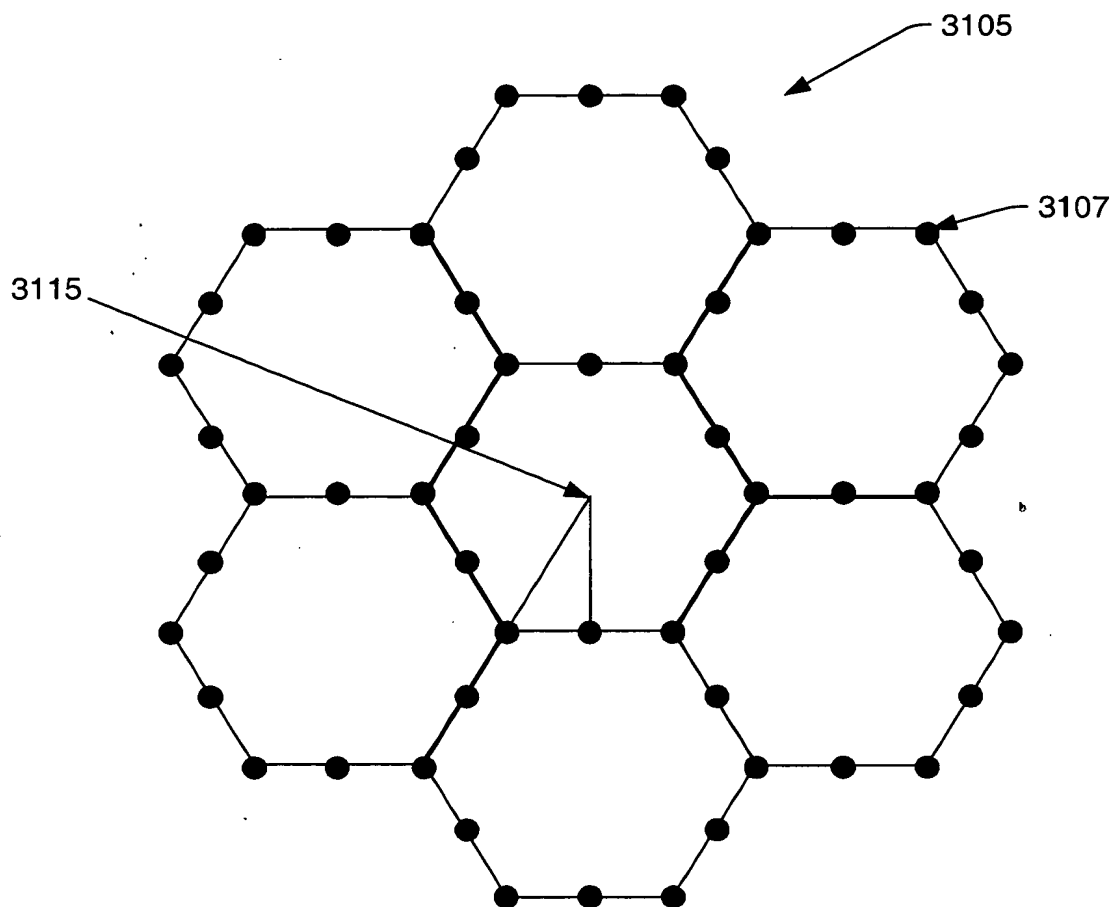


FIG. 77a

FIG. 78 is a 3D surface plot of the temperature distribution T (°C) as a function of position (x, y) in the xy-plane. The plot shows a complex, multi-peaked surface, indicating a non-uniform temperature distribution. The x and y axes range from -10 to 10, and the temperature T ranges from 500 to 600 °C.

3110

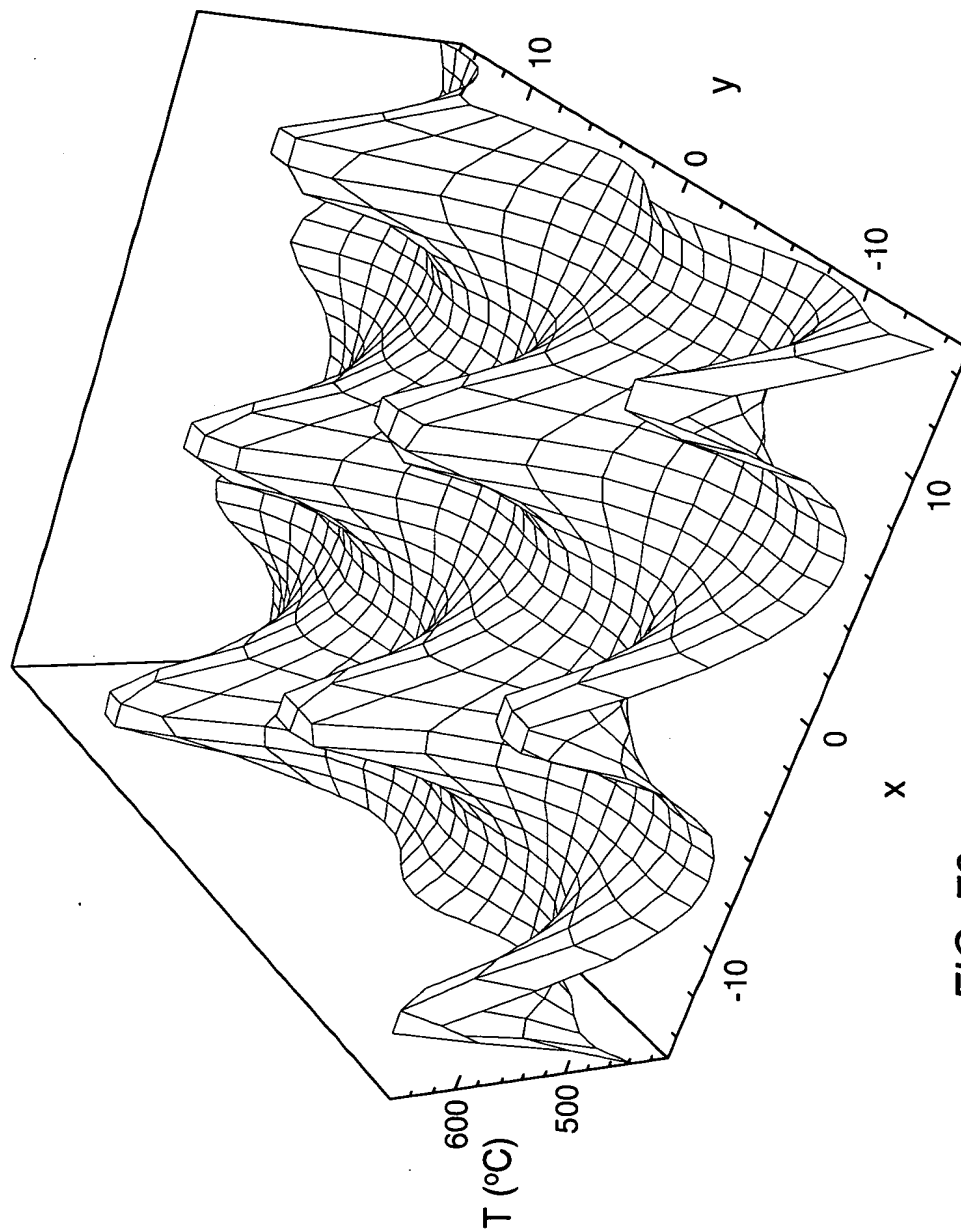
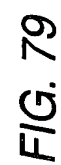


FIG. 78



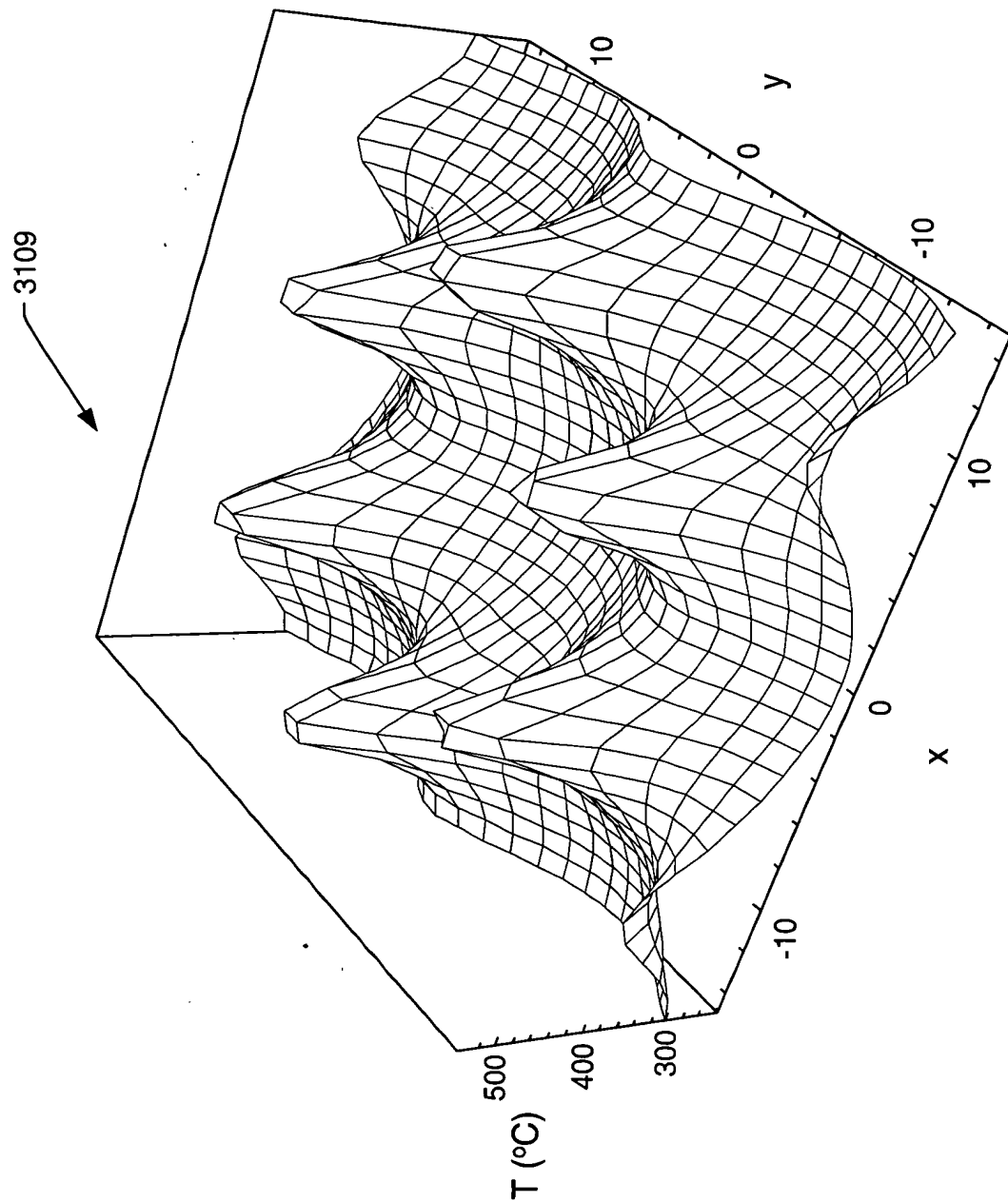


FIG. 79a

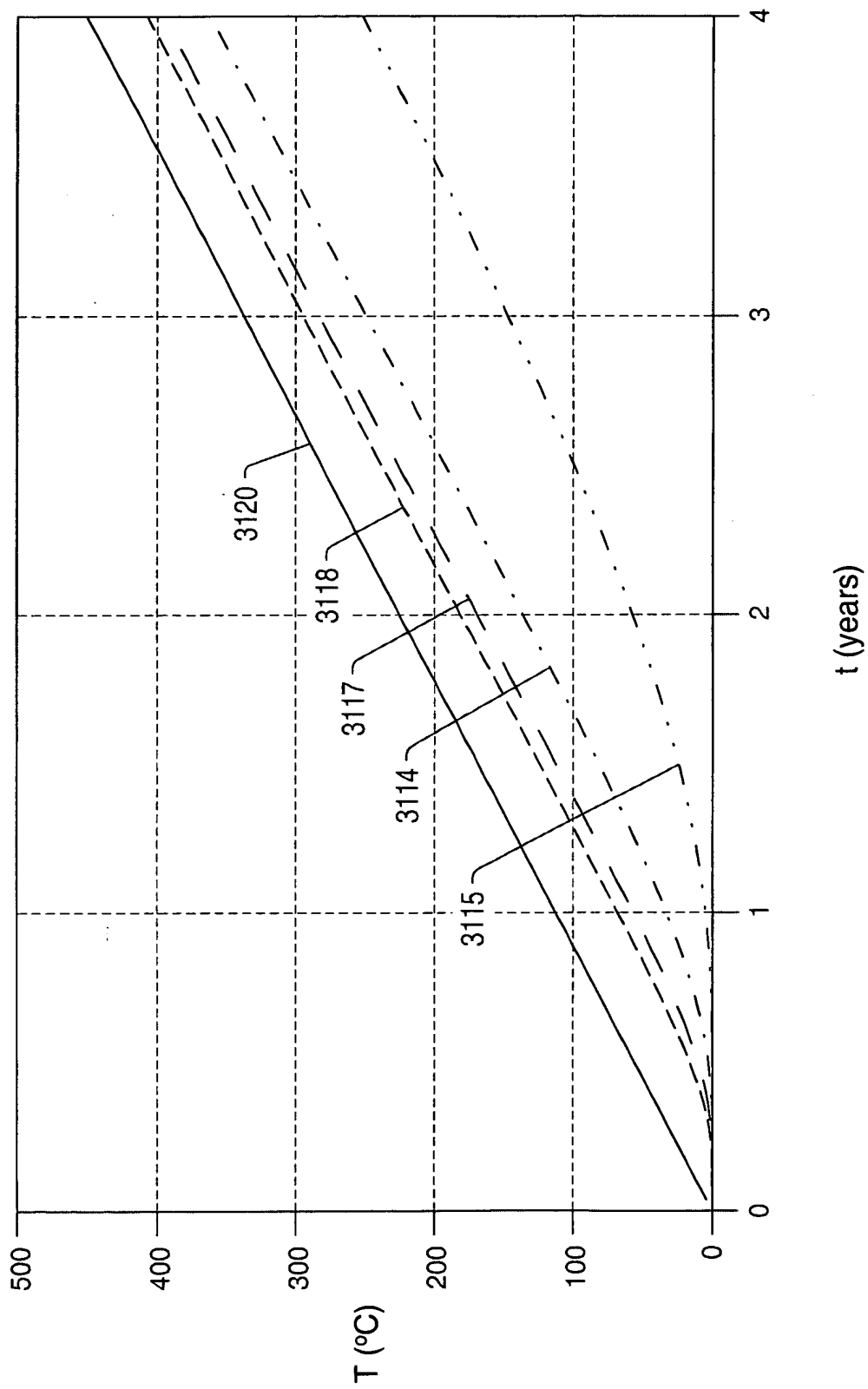


FIG. 80

FIG. 80

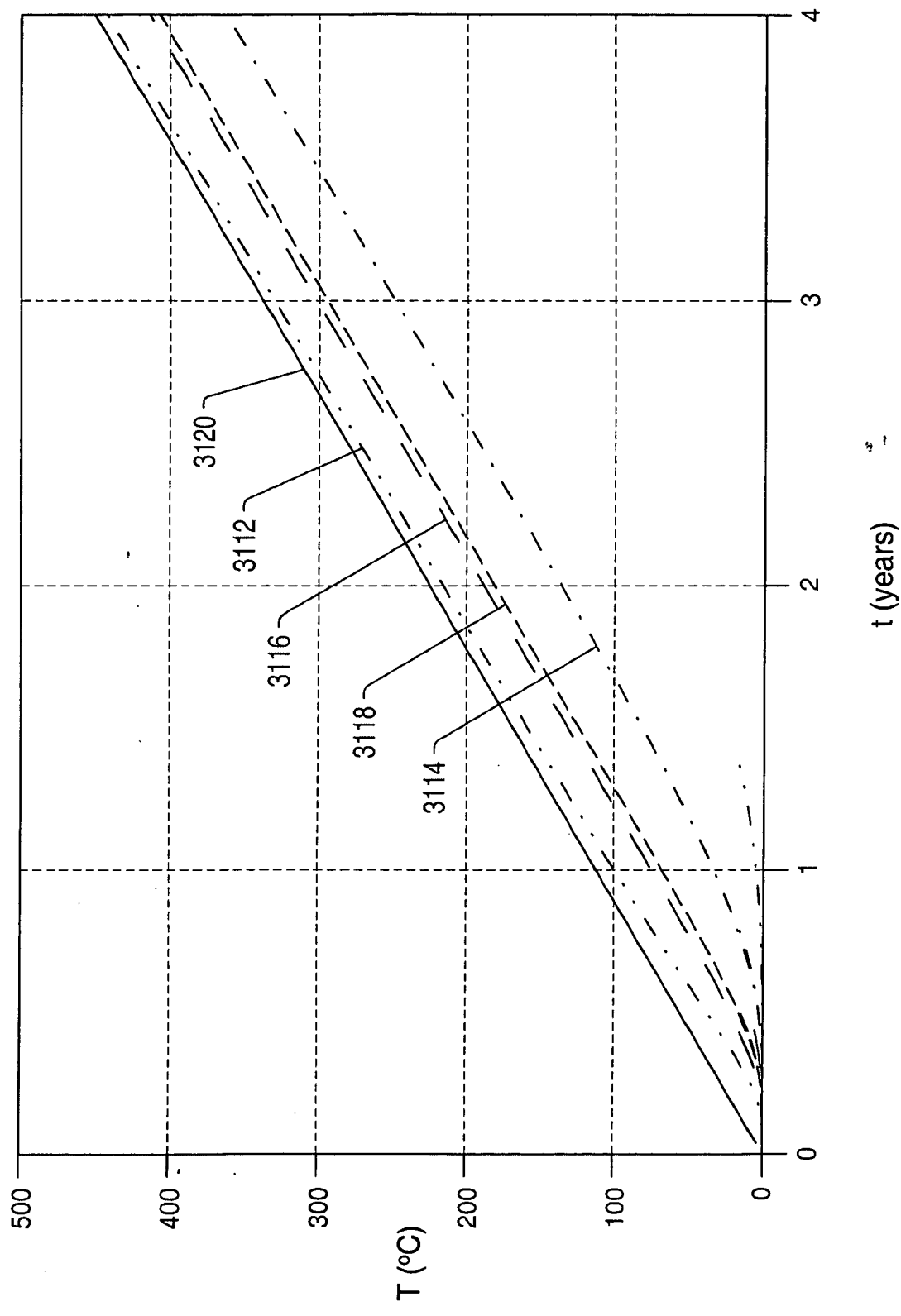


FIG. 81

FIG. 81a is a graph showing the temperature T (°C) versus time t (years) for three different cases, labeled 3118, 3119, and 3120. The graph shows that the temperature decreases over time for all three cases, with case 3118 showing the highest temperature and case 3120 showing the lowest temperature.

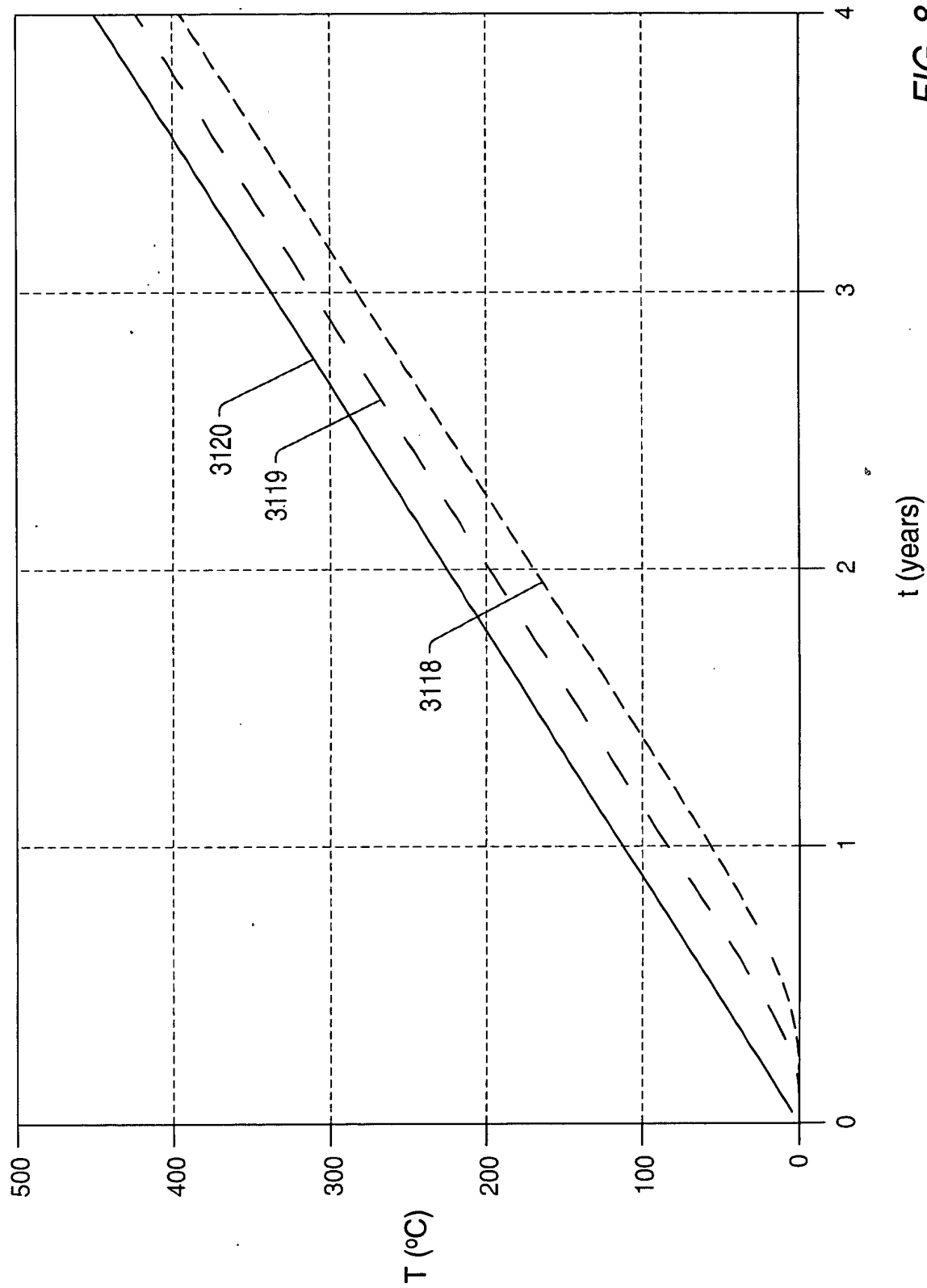


FIG. 81a

FIG. 81b

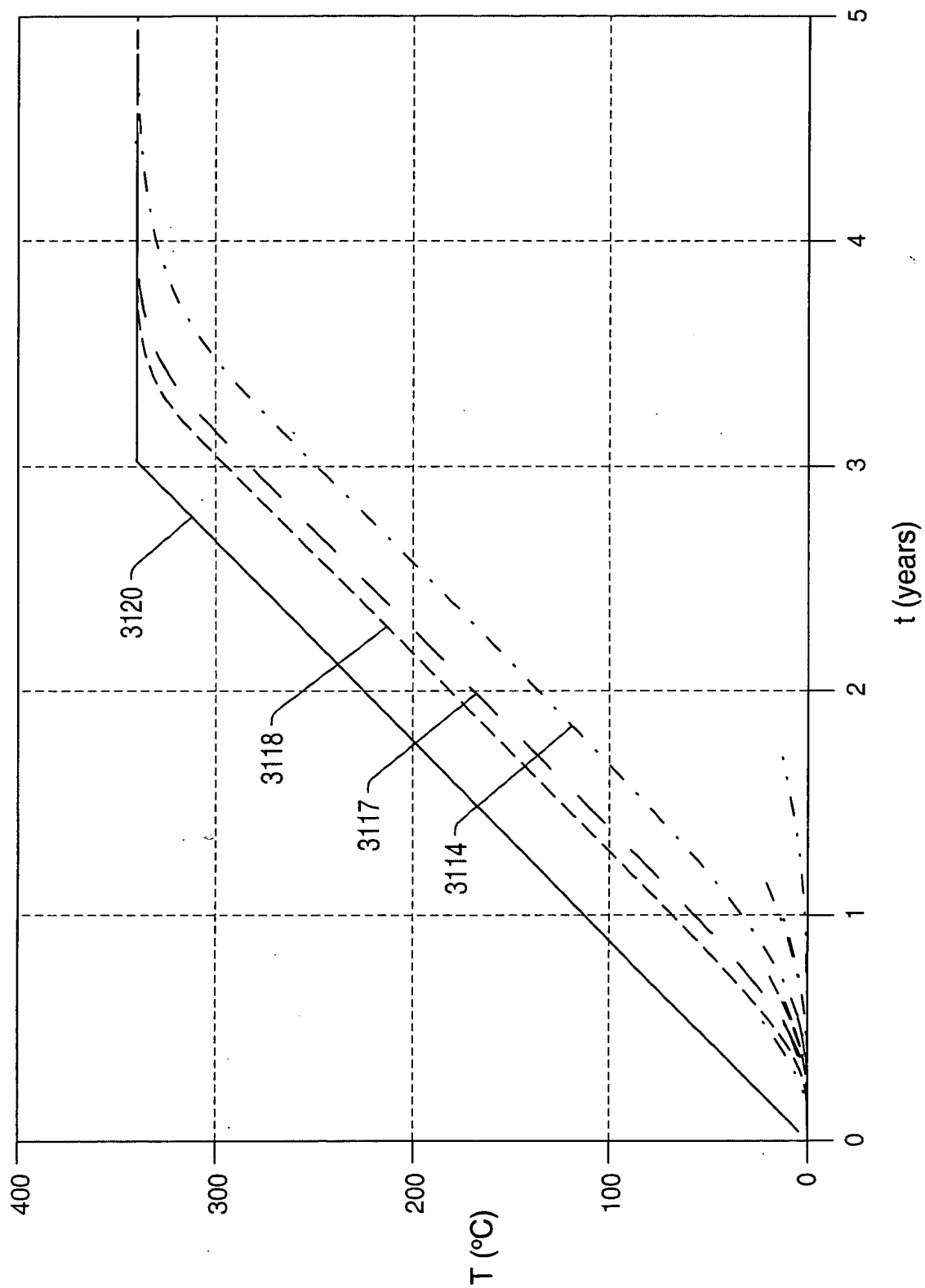


FIG. 81b

FIG. 82

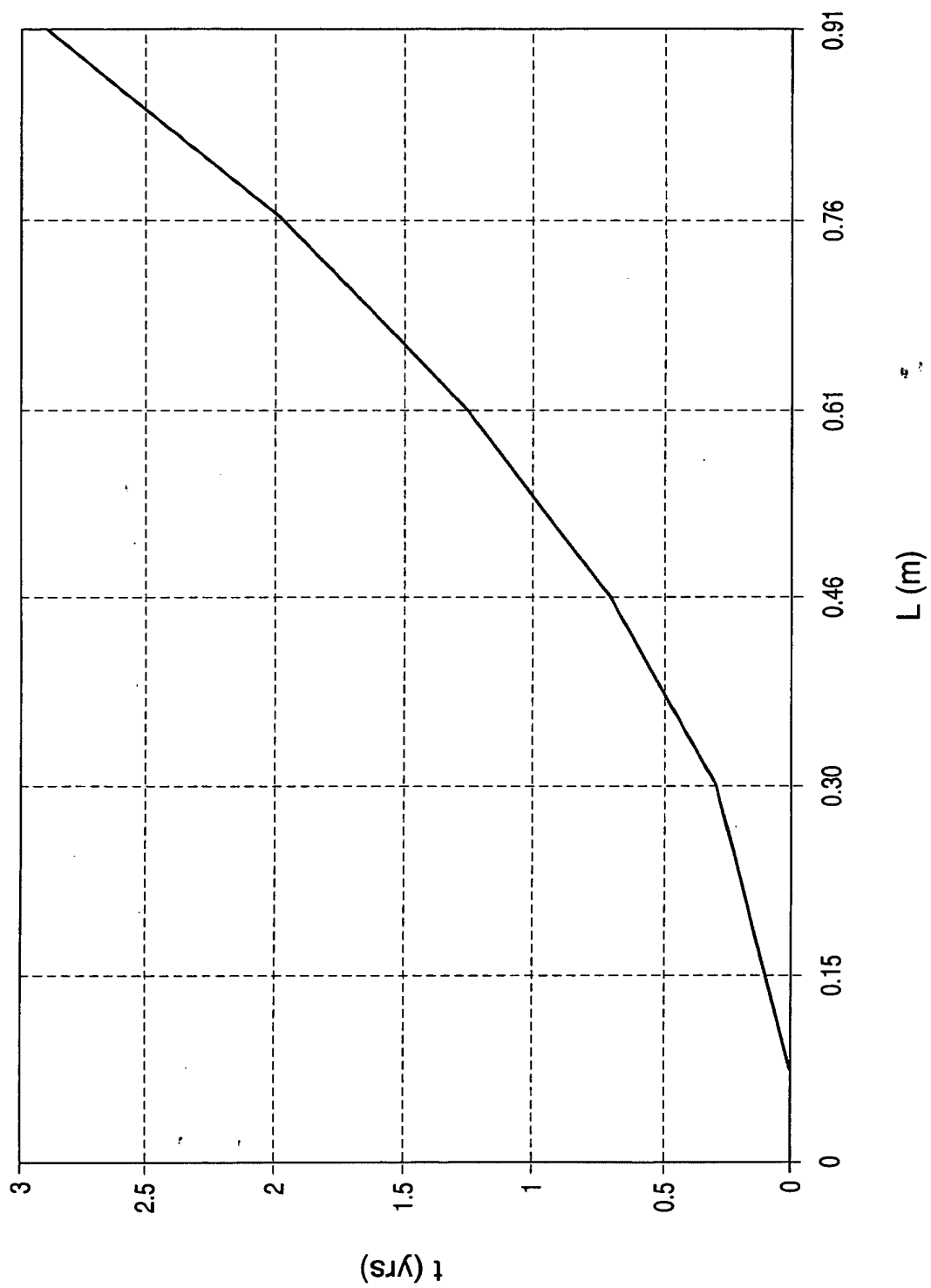


FIG. 82

FIG. 83

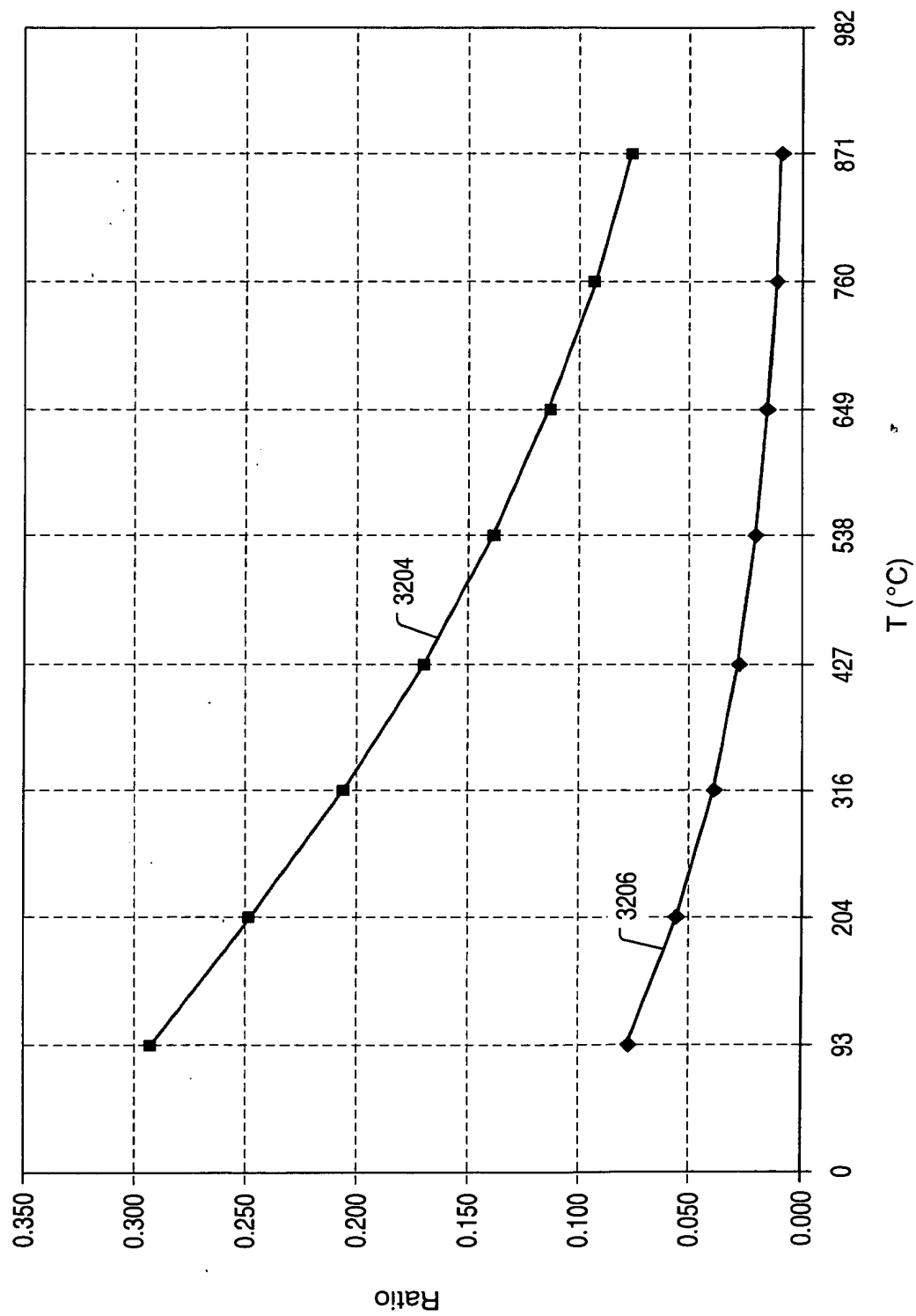


FIG. 83

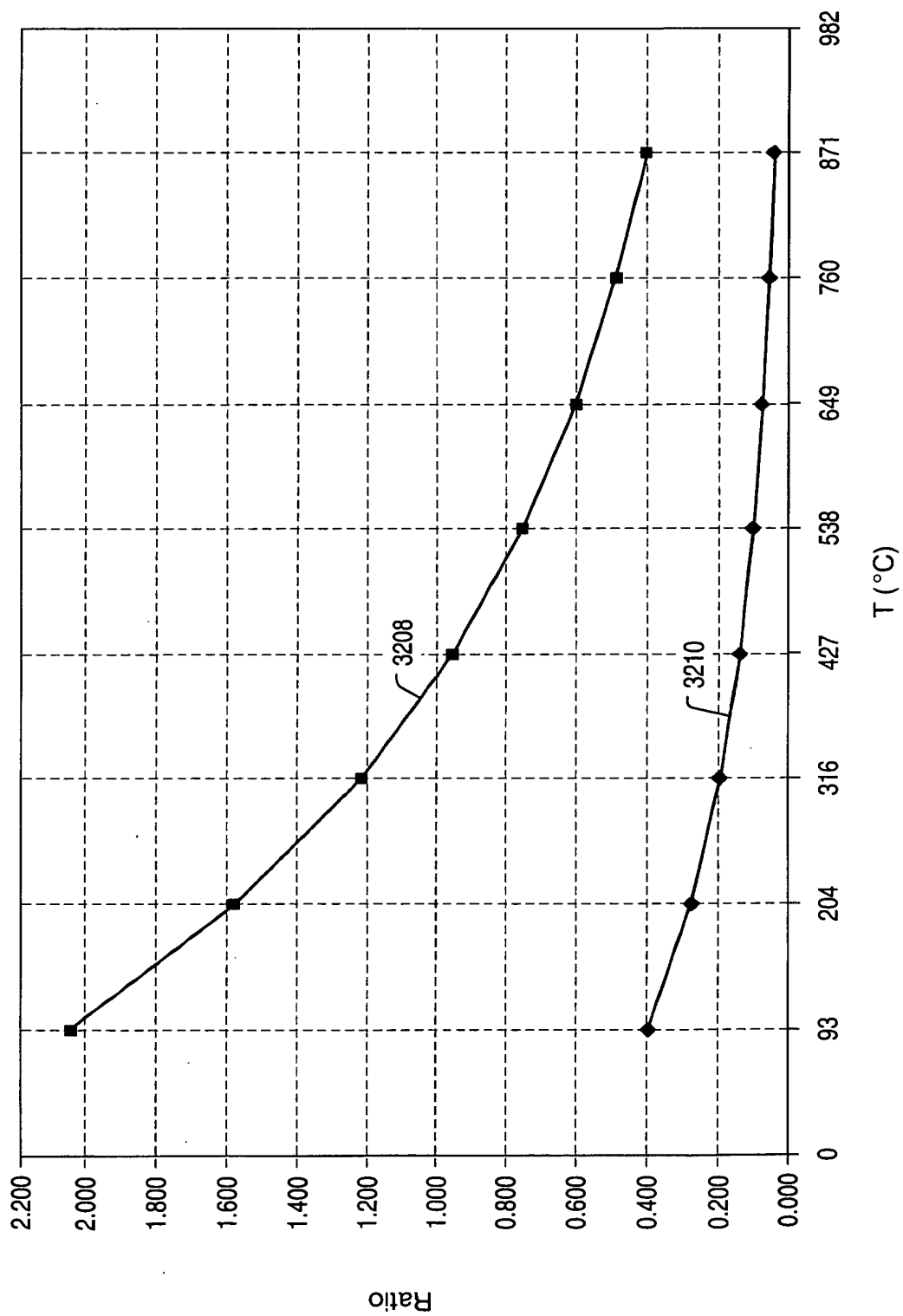


FIG. 84

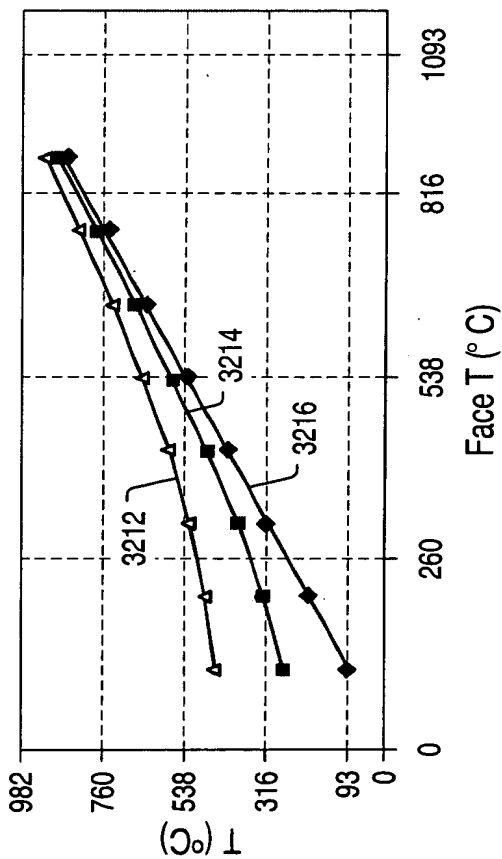


FIG. 85

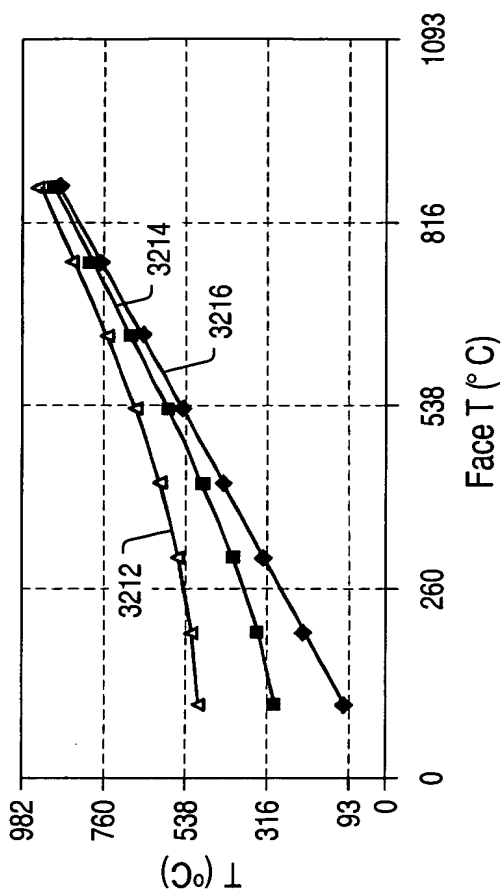


FIG. 86

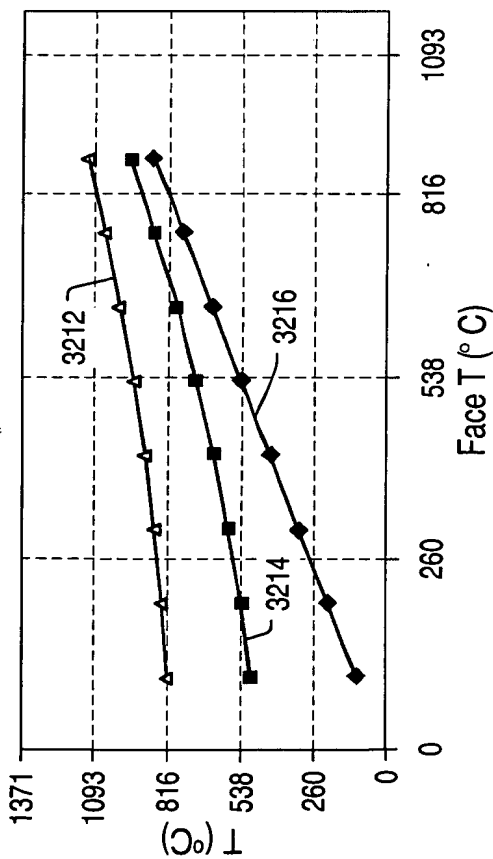


FIG. 87

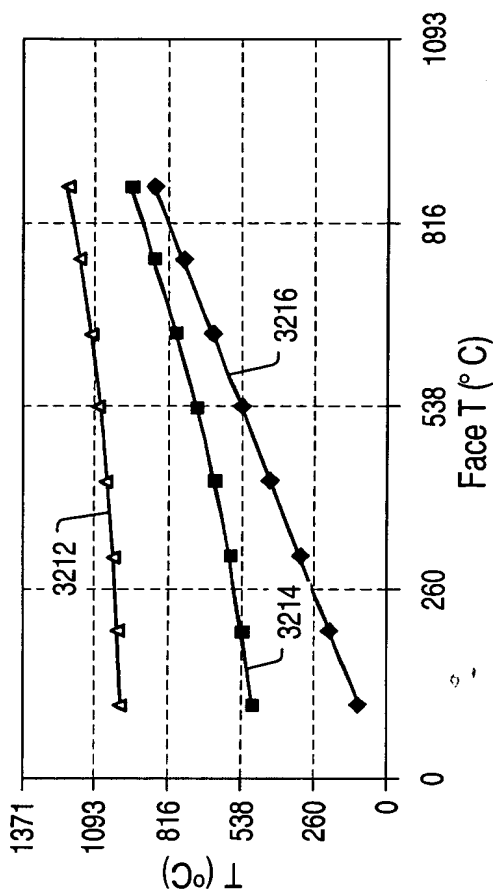


FIG. 88

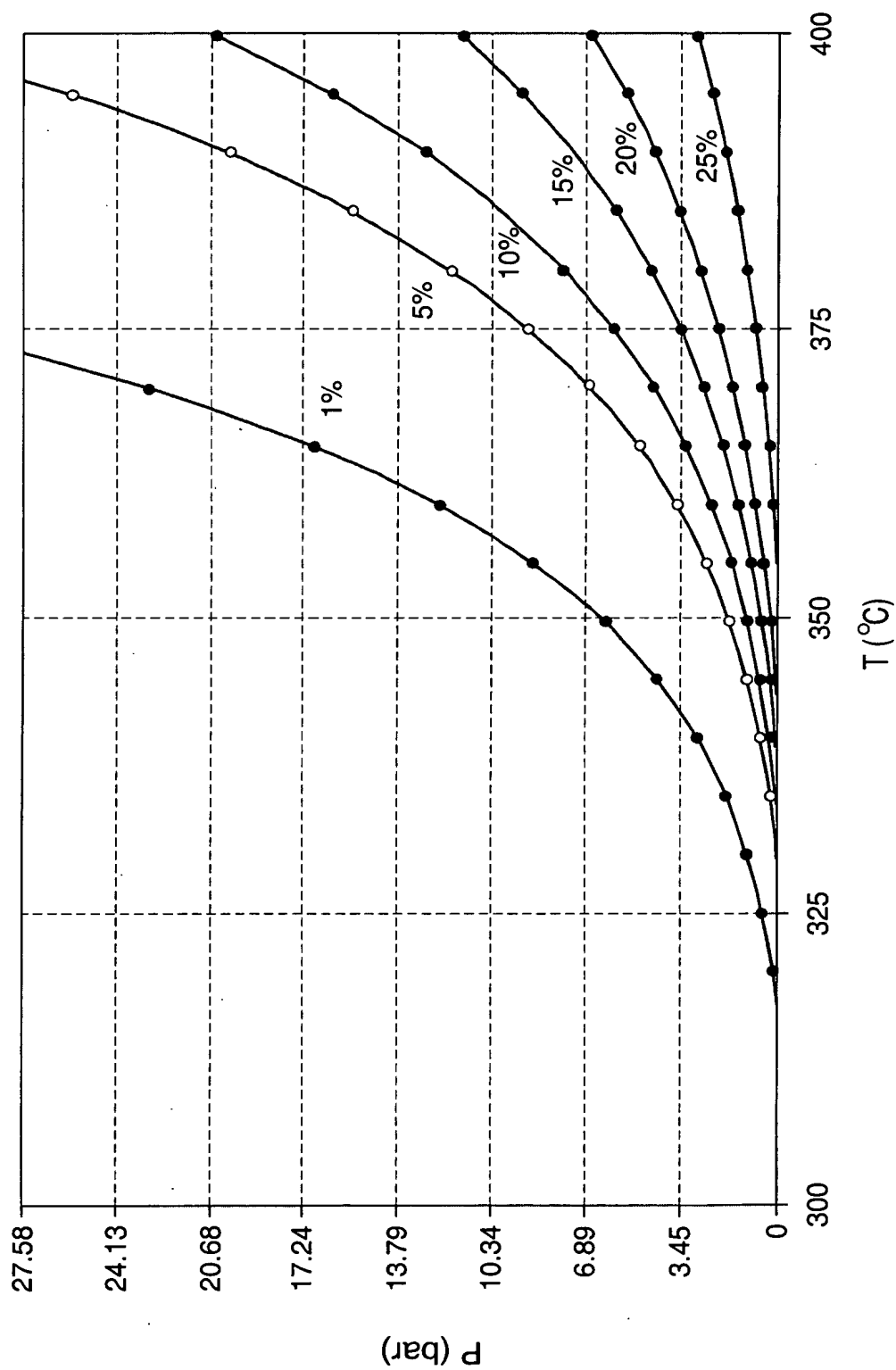


FIG. 90

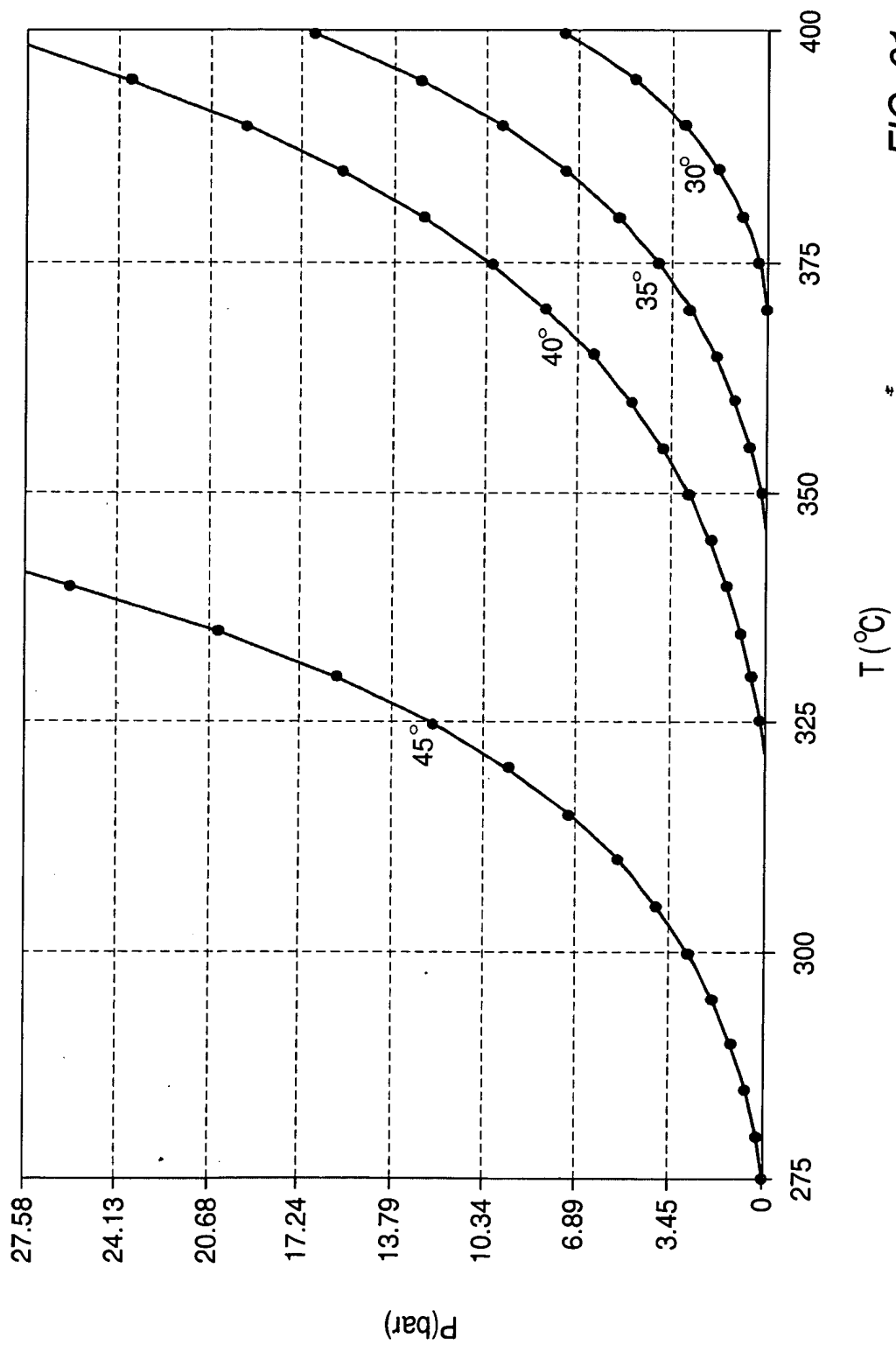


FIG. 91

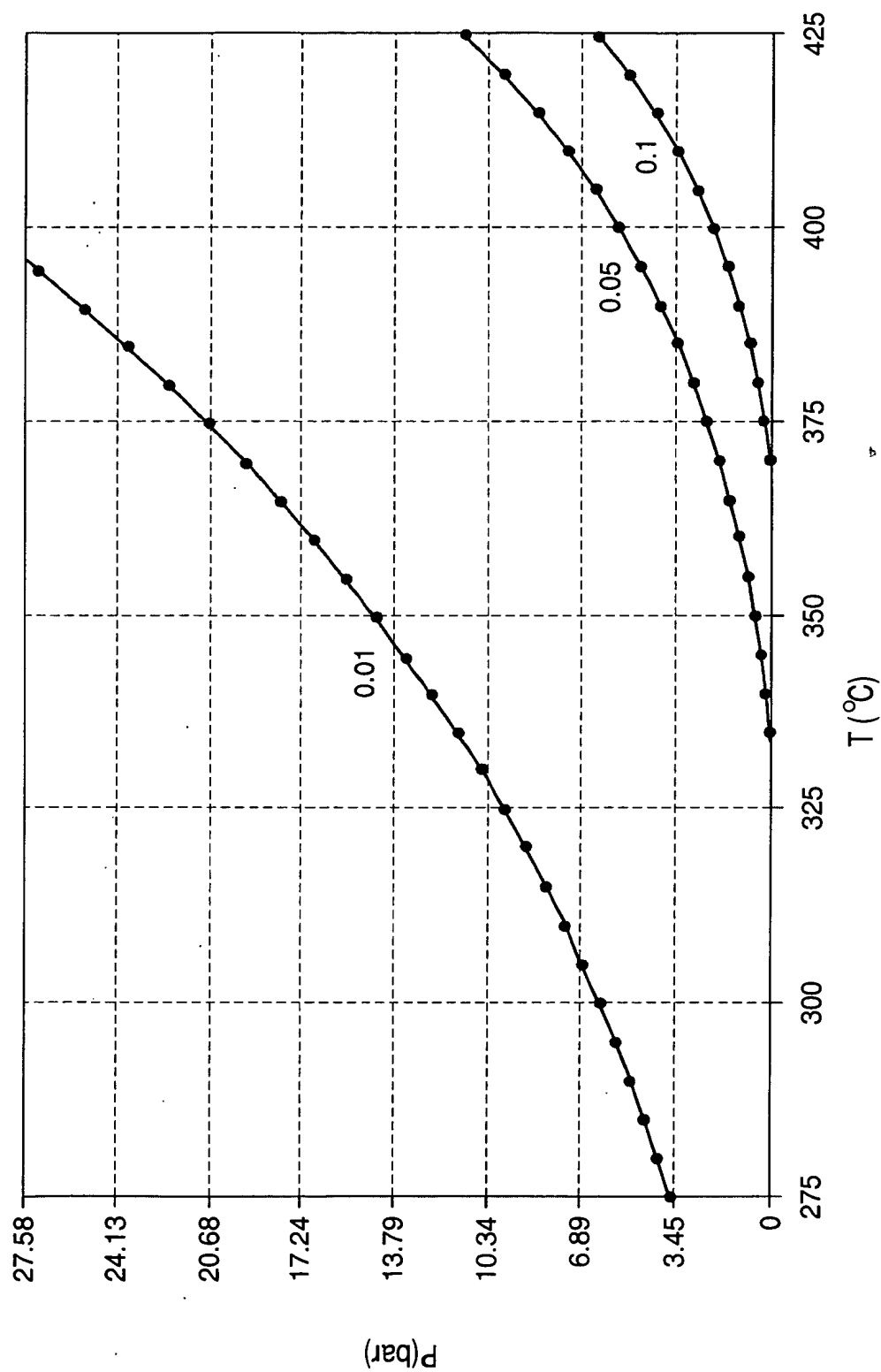


FIG. 92

FIG. 93

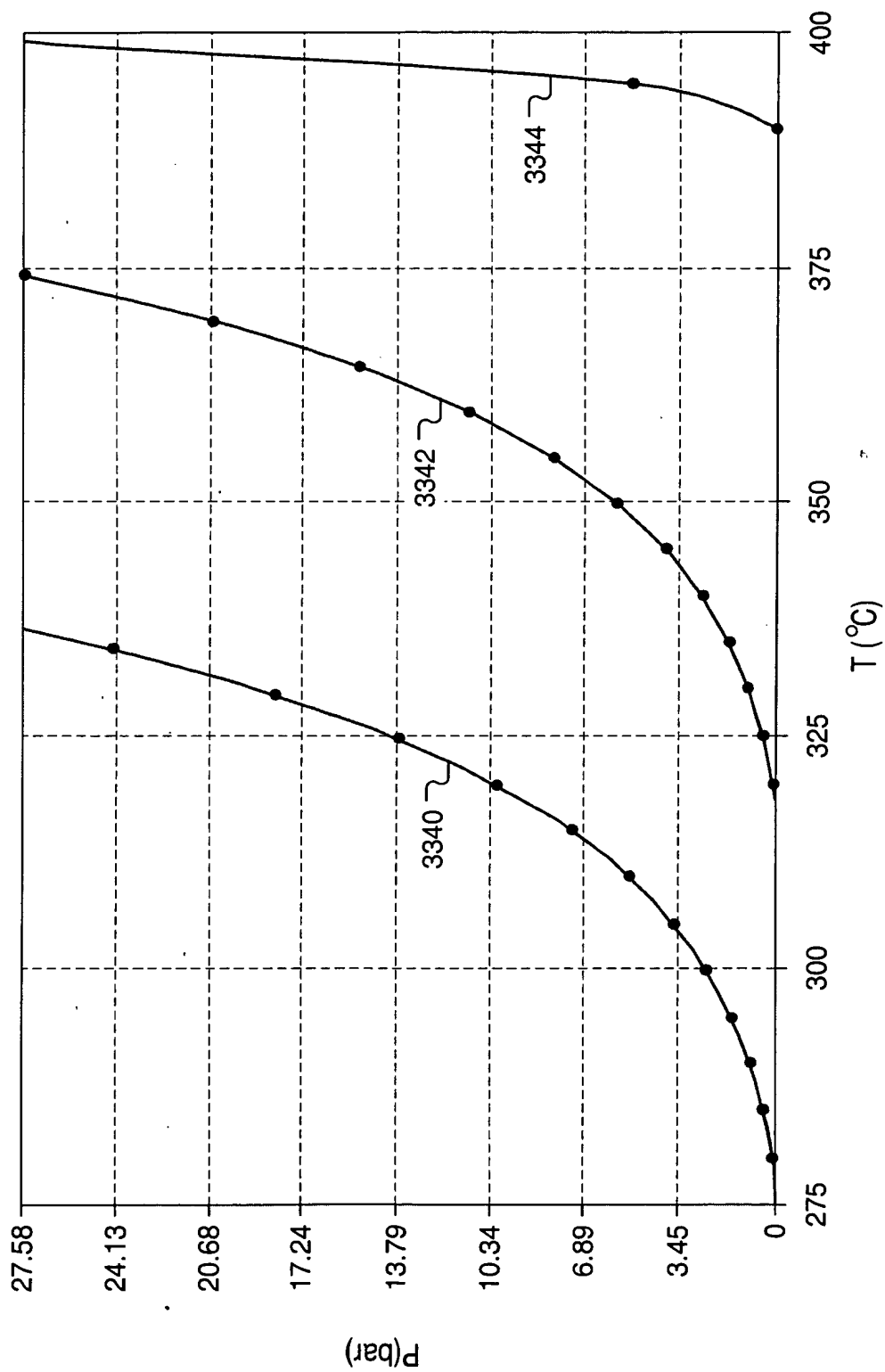


FIG. 93

FIG. 94

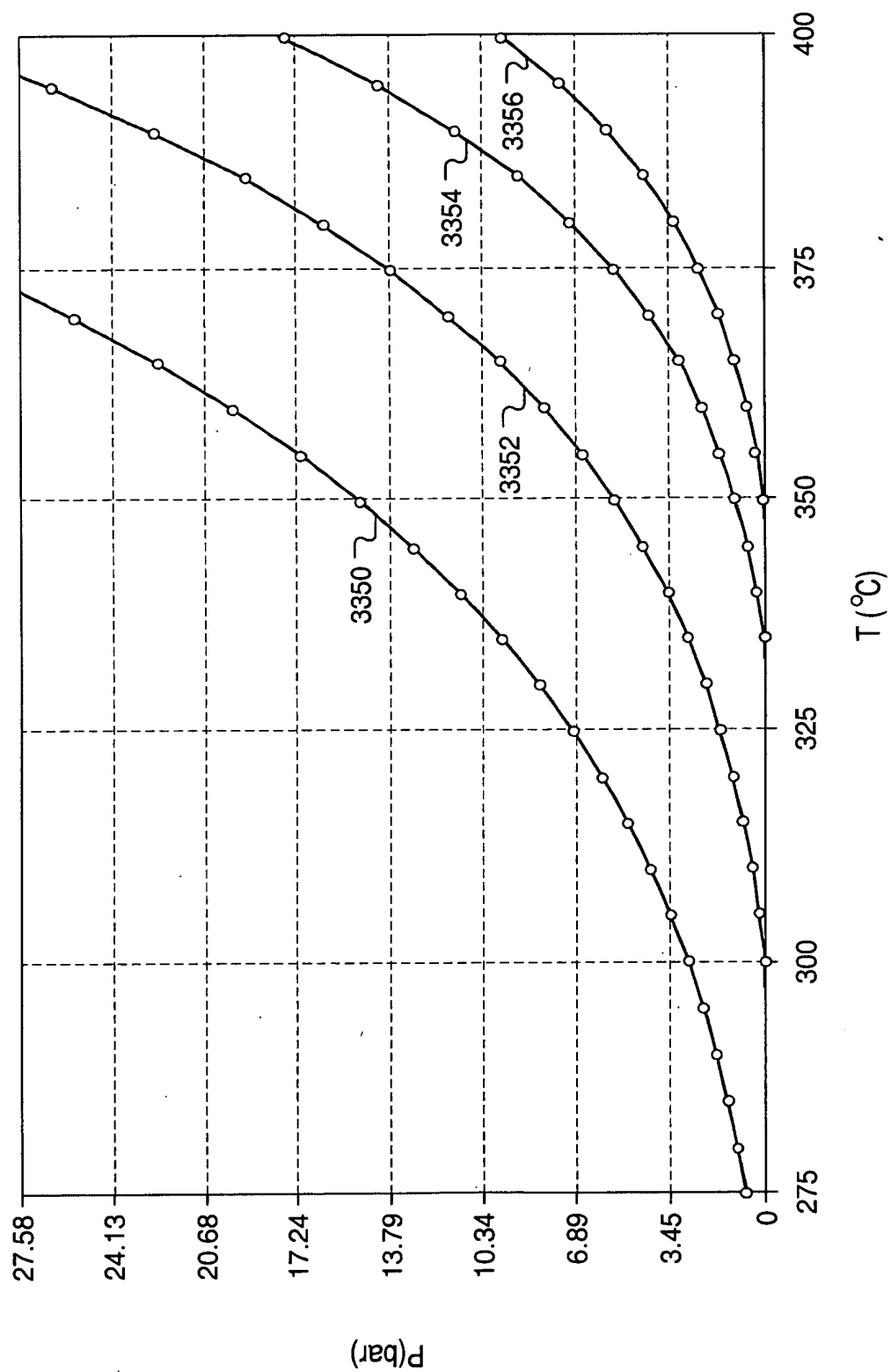


FIG. 94

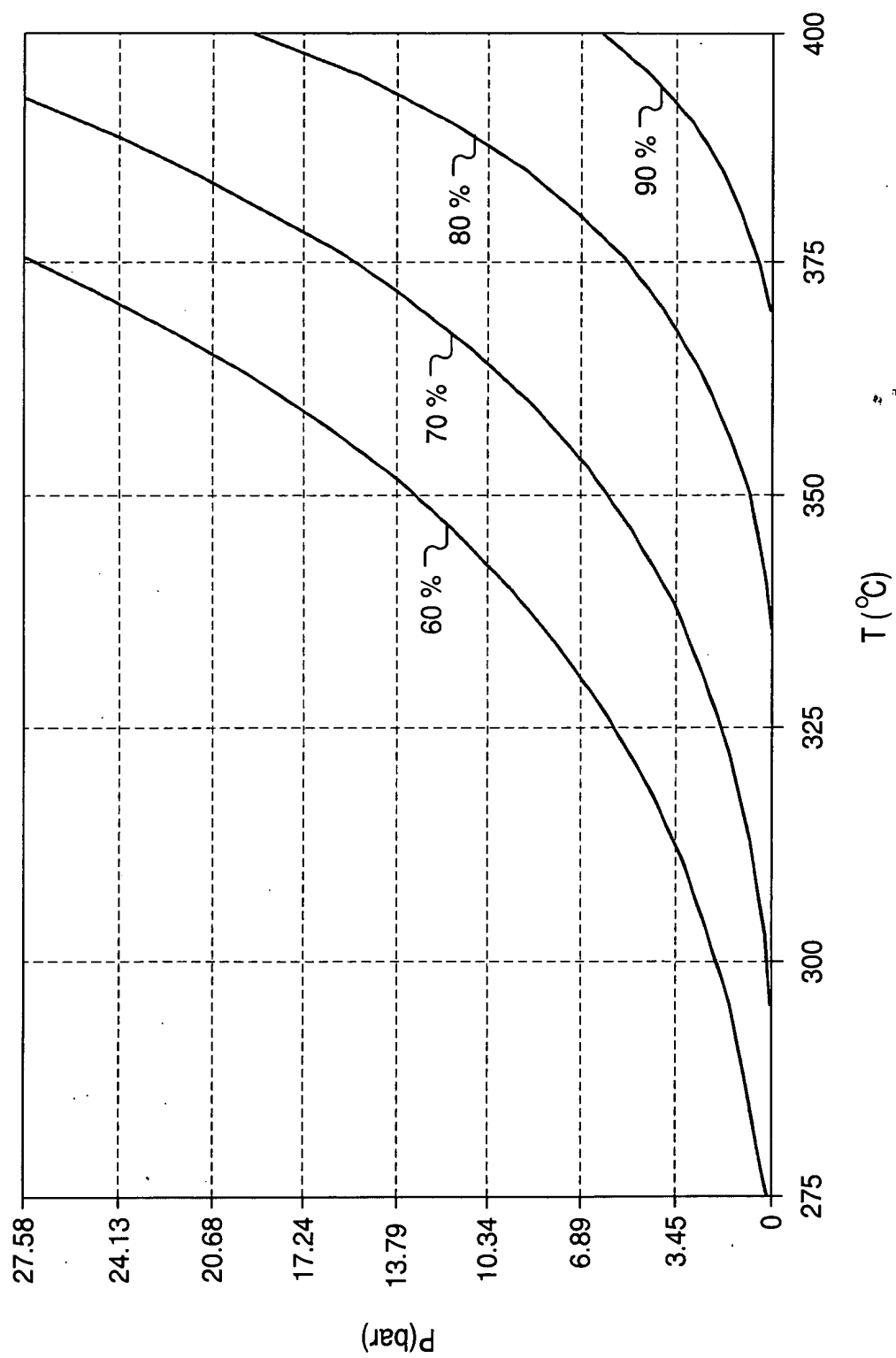


FIG. 95

Graph showing the pressure P (bar) versus temperature T ($^{\circ}\text{C}$) for the CO_2 - H_2O system. The curves represent isobars for different pressure values: 1.8, 1.9, and 1.99 bar. The temperature range is from 275 to 400 $^{\circ}\text{C}$, and the pressure range is from 0 to 27.58 bar. The curves show a minimum pressure around 325-330 $^{\circ}\text{C}$.

T ($^{\circ}\text{C}$)	P (bar) for 1.8	P (bar) for 1.9	P (bar) for 1.99
275	~0.5	~0.2	~0.1
300	~3.45	~1.3	~0.8
325	~6.89	~2.7	~1.7
350	~10.34	~4.1	~2.6
375	~13.79	~5.5	~3.5
400	~17.24	~6.9	~4.4

FIG. 96

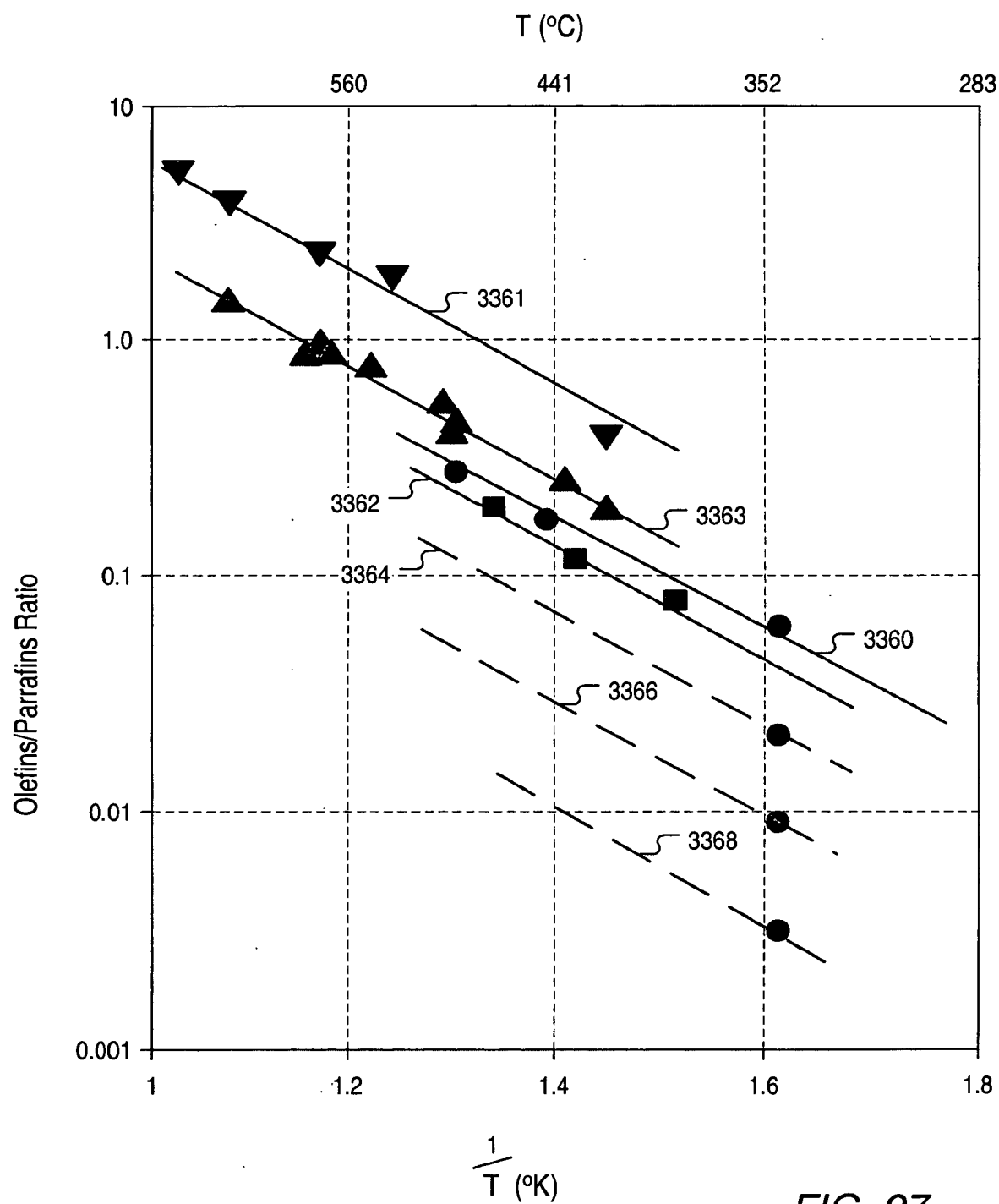


FIG. 97

FIG. 98 is a graph showing the relationship between API Gravity (°) and P_{H2} (bar) for three different temperatures: 325°C, 350°C, and 375°C. The graph shows that API Gravity increases as P_{H2} increases for all three temperatures, with the rate of increase being more pronounced at higher temperatures.

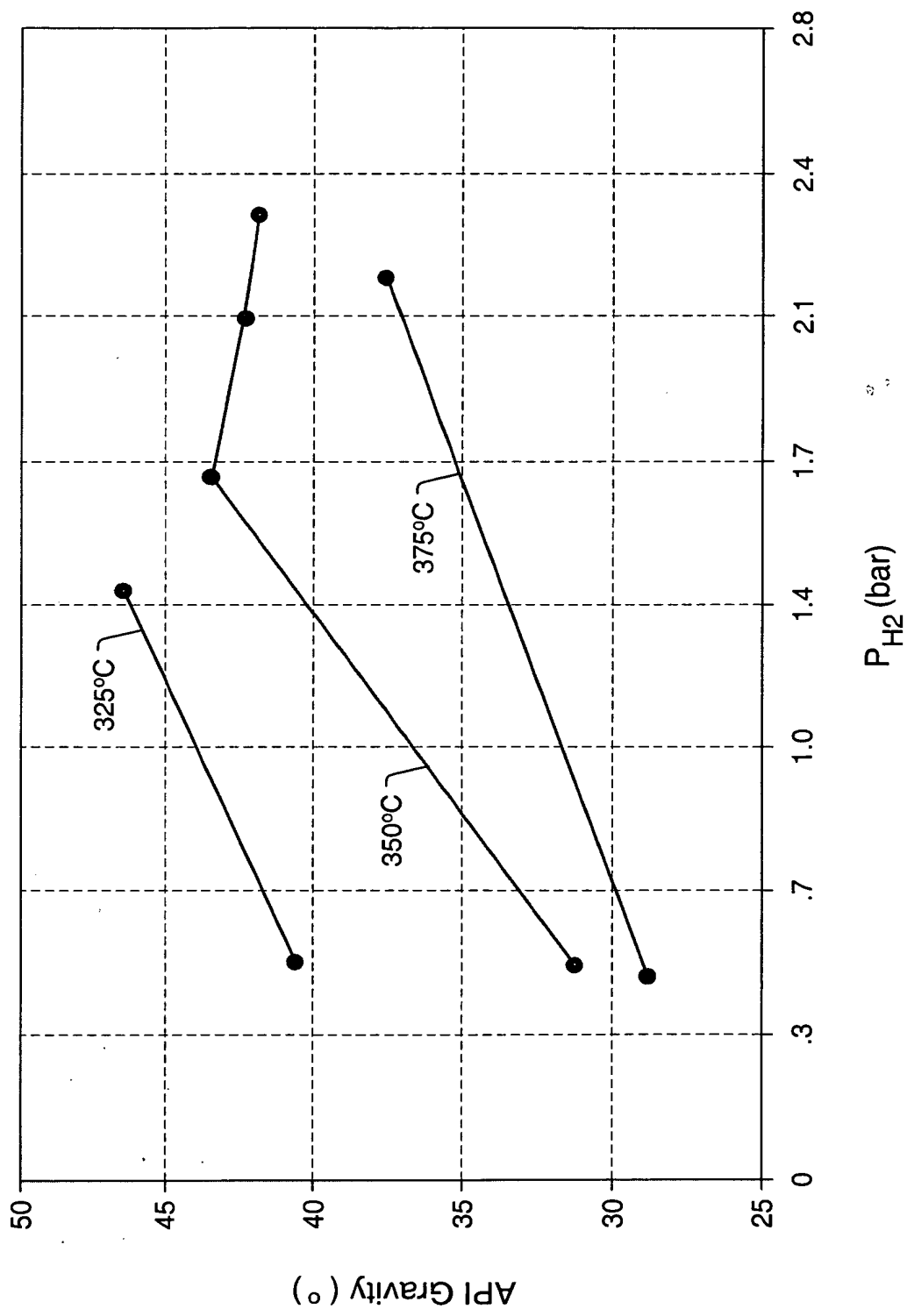


FIG. 98

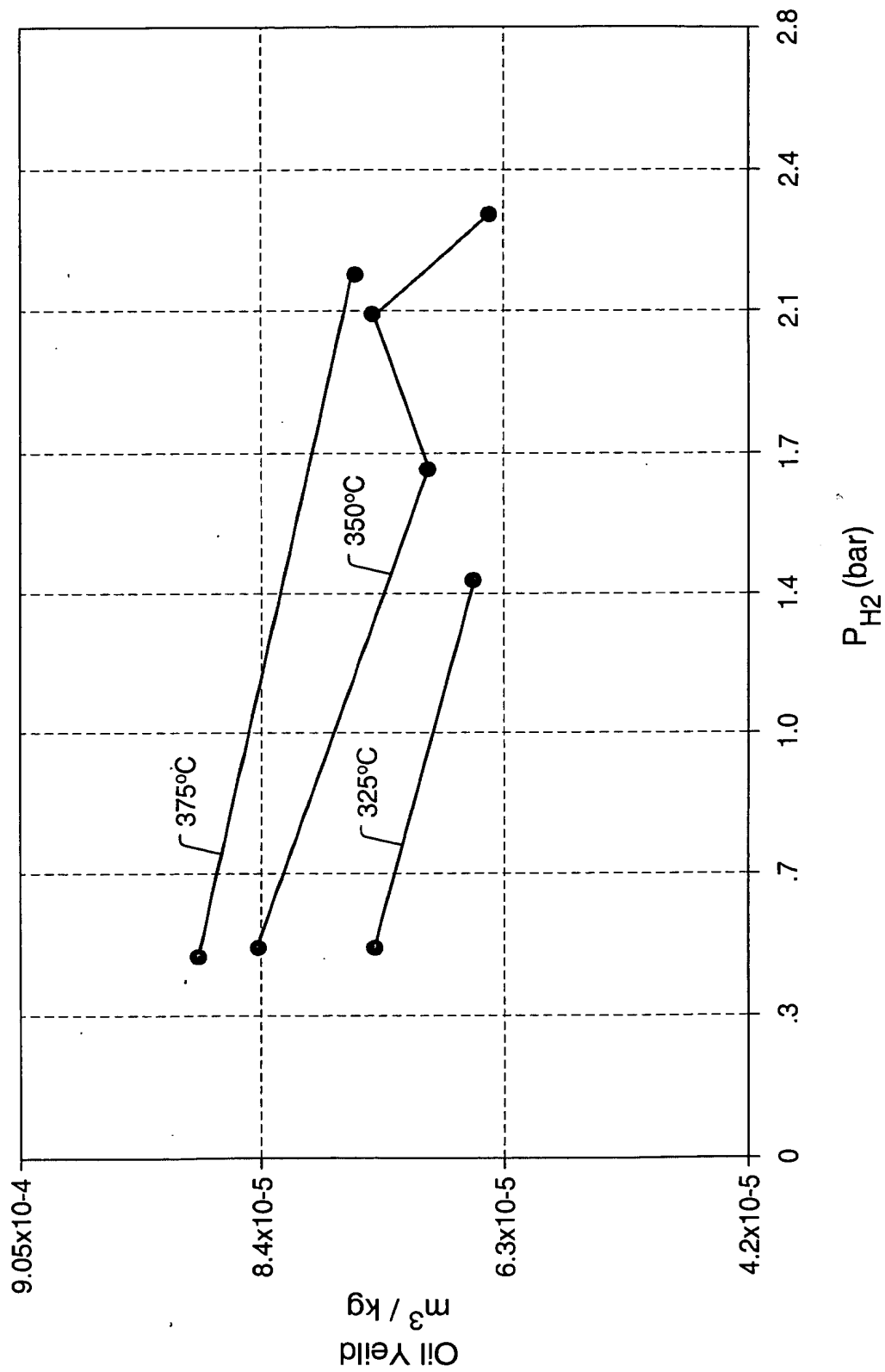


FIG. 99

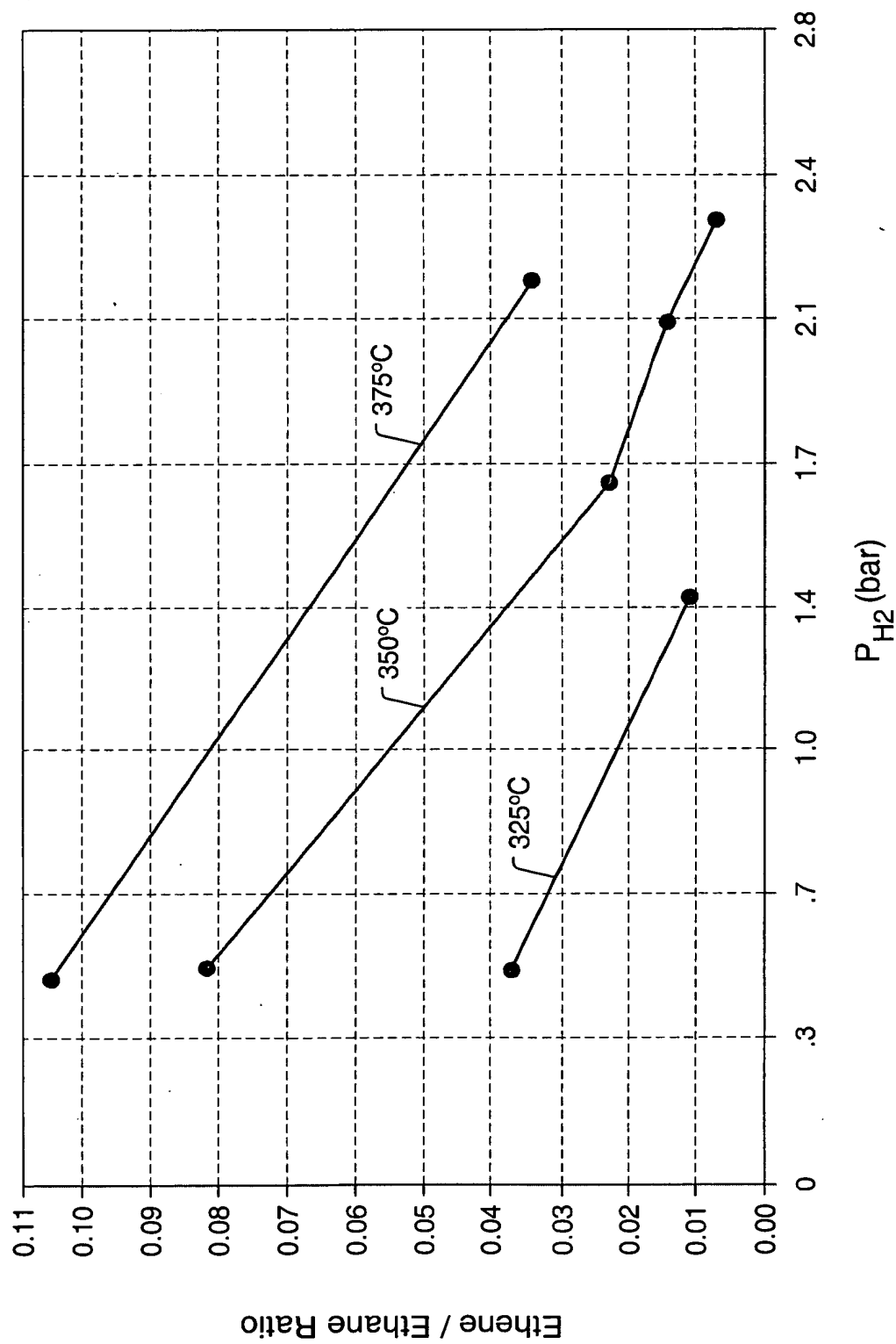


FIG. 100

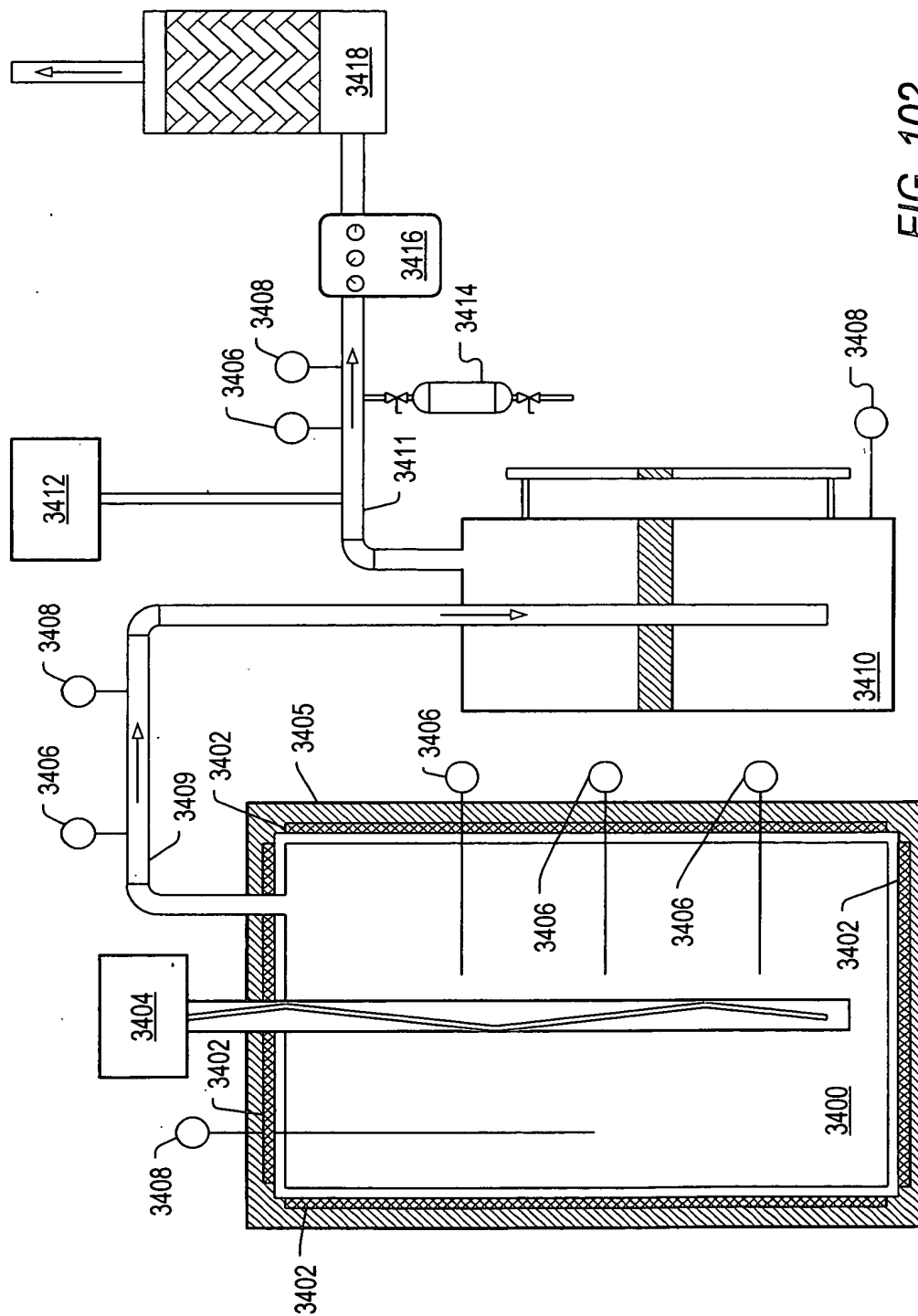


FIG. 102

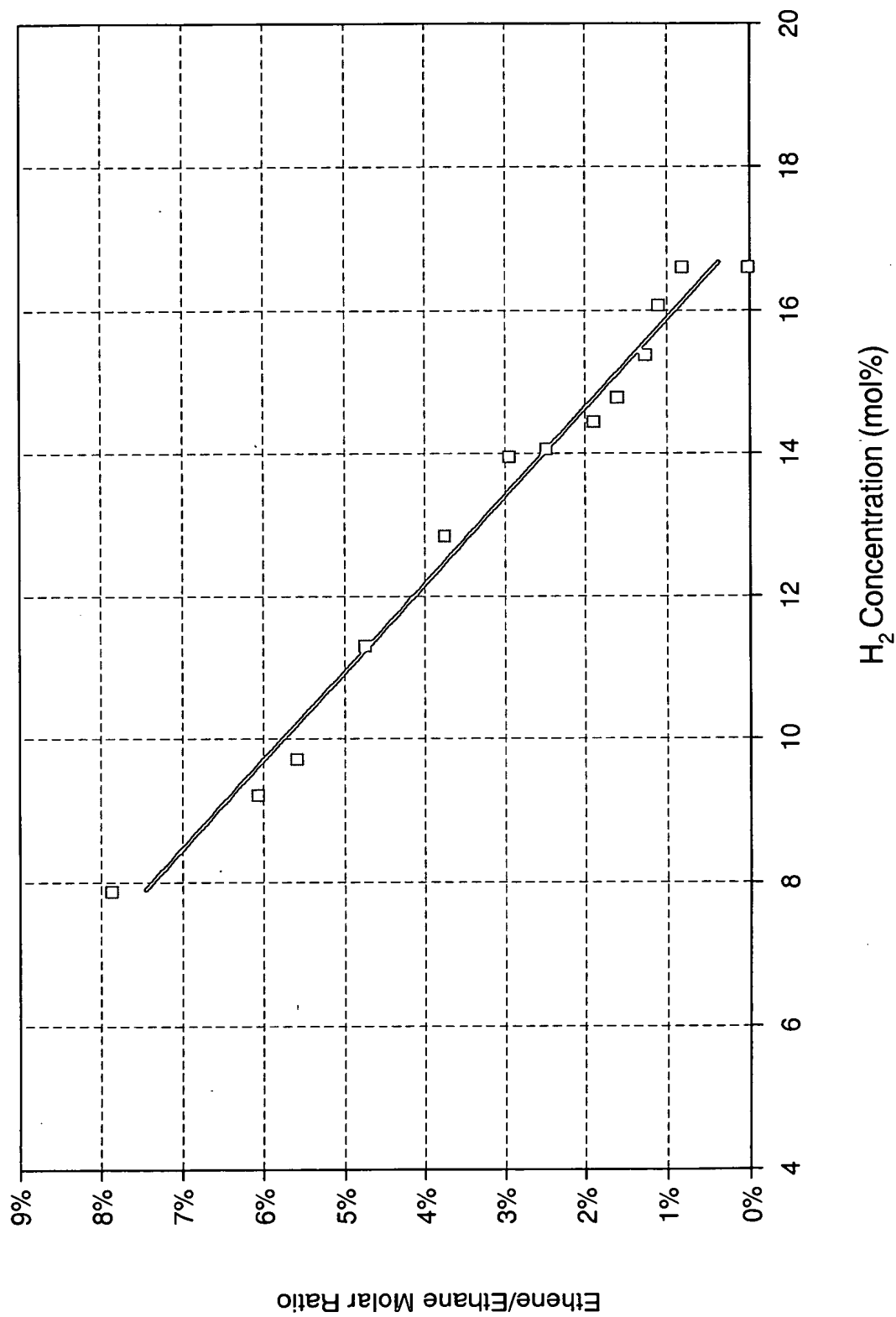
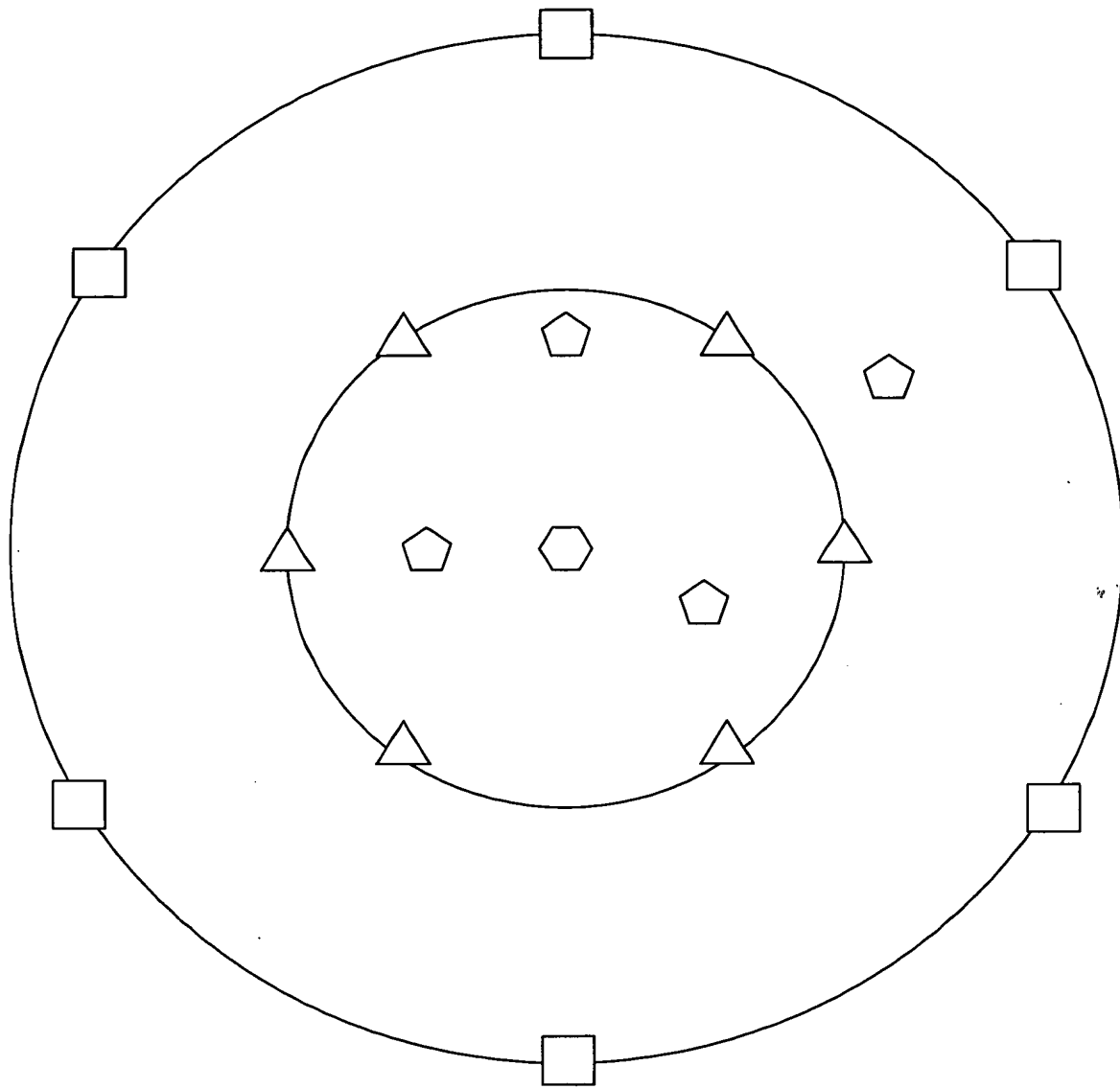


FIG. 103

FIG. 104



△ - 3600

⬠ - 3603

□ - 3604

⬡ - 3602

FIG. 104

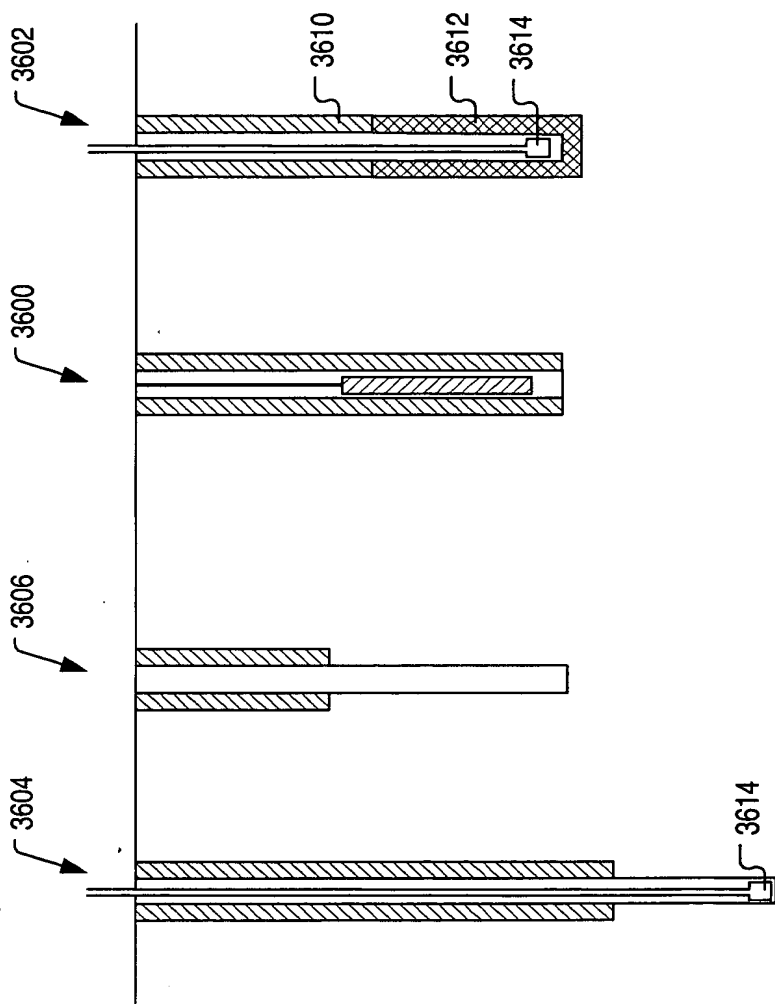


FIG. 105

Pat. 2,483,600

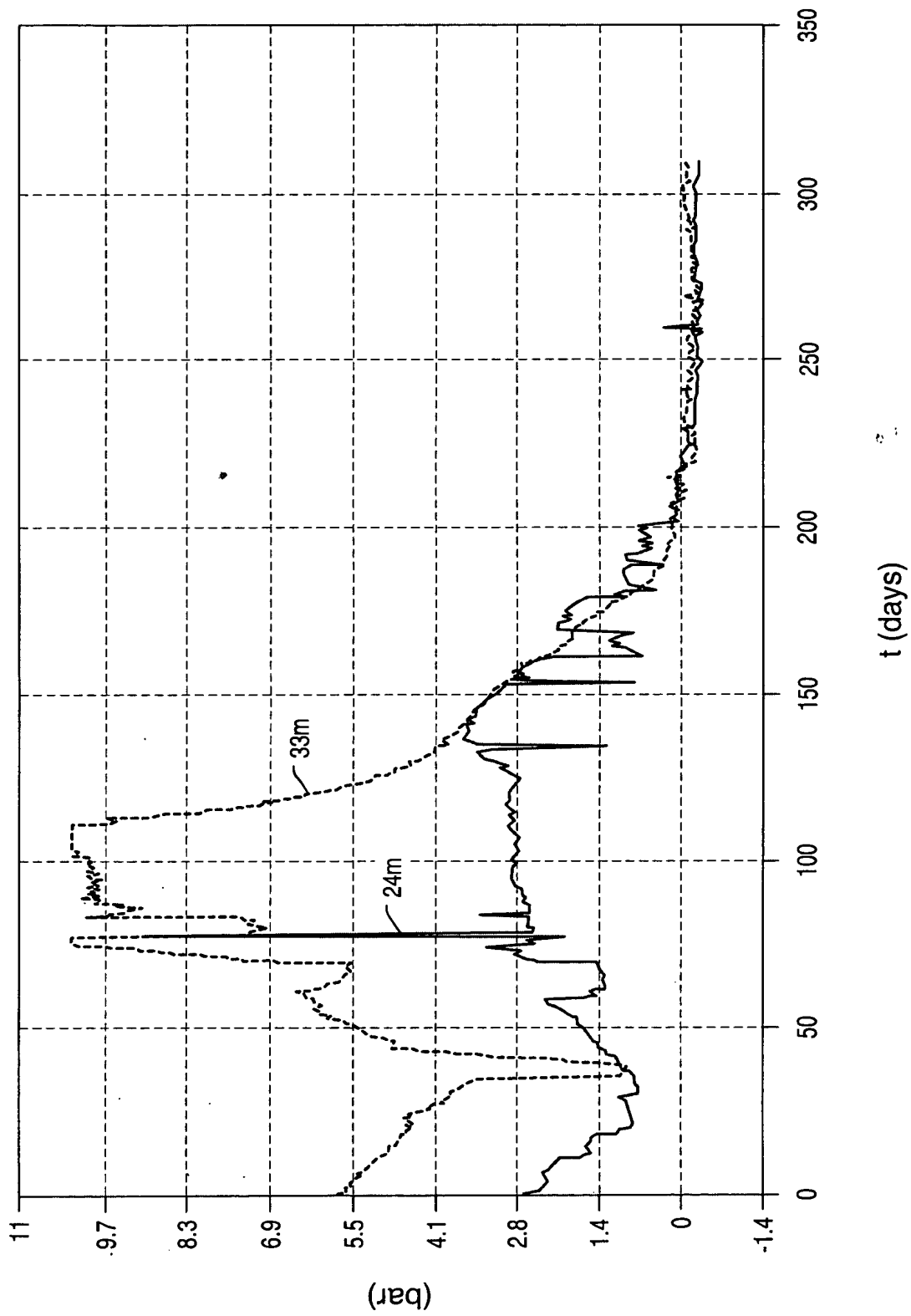


FIG. 107

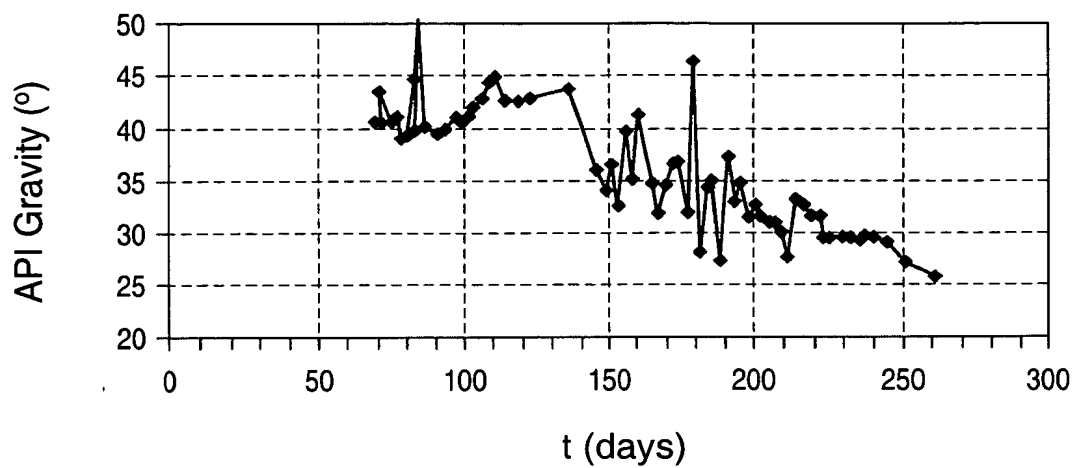


FIG. 108

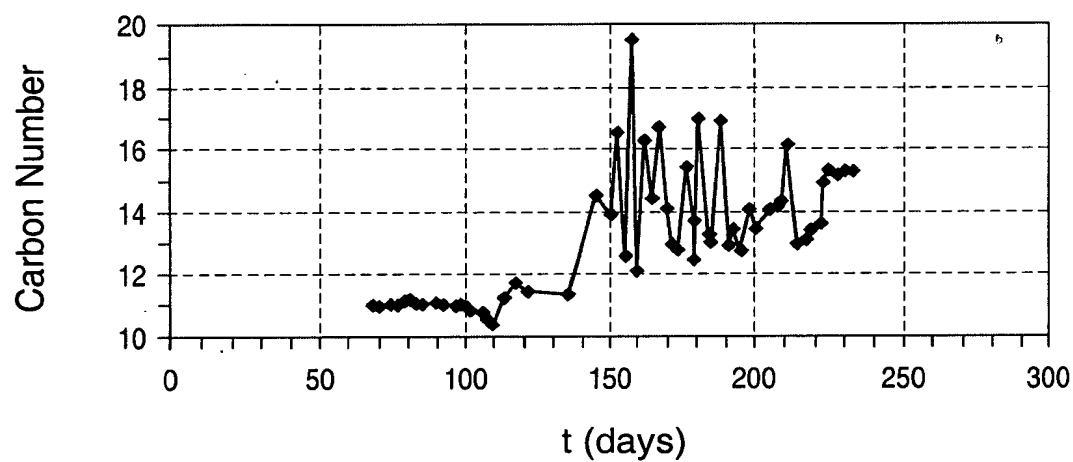


FIG. 109

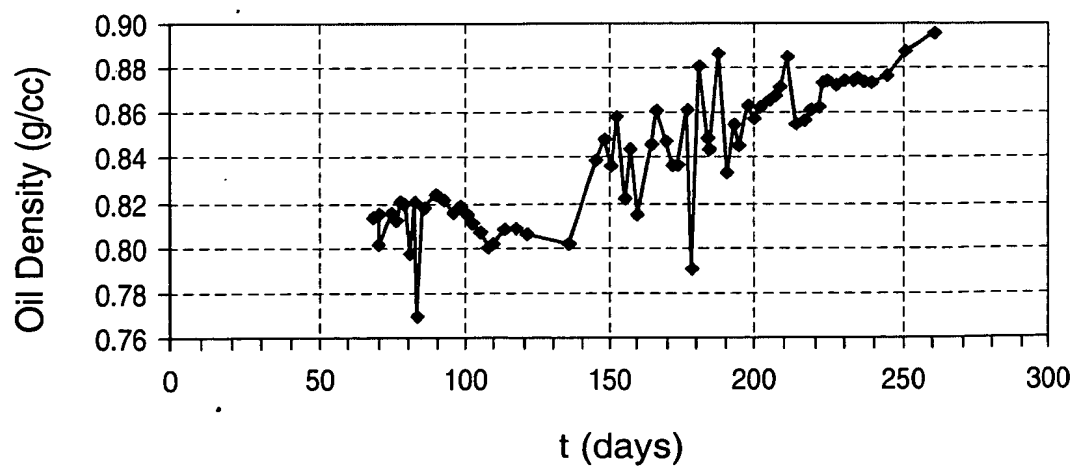


FIG. 110

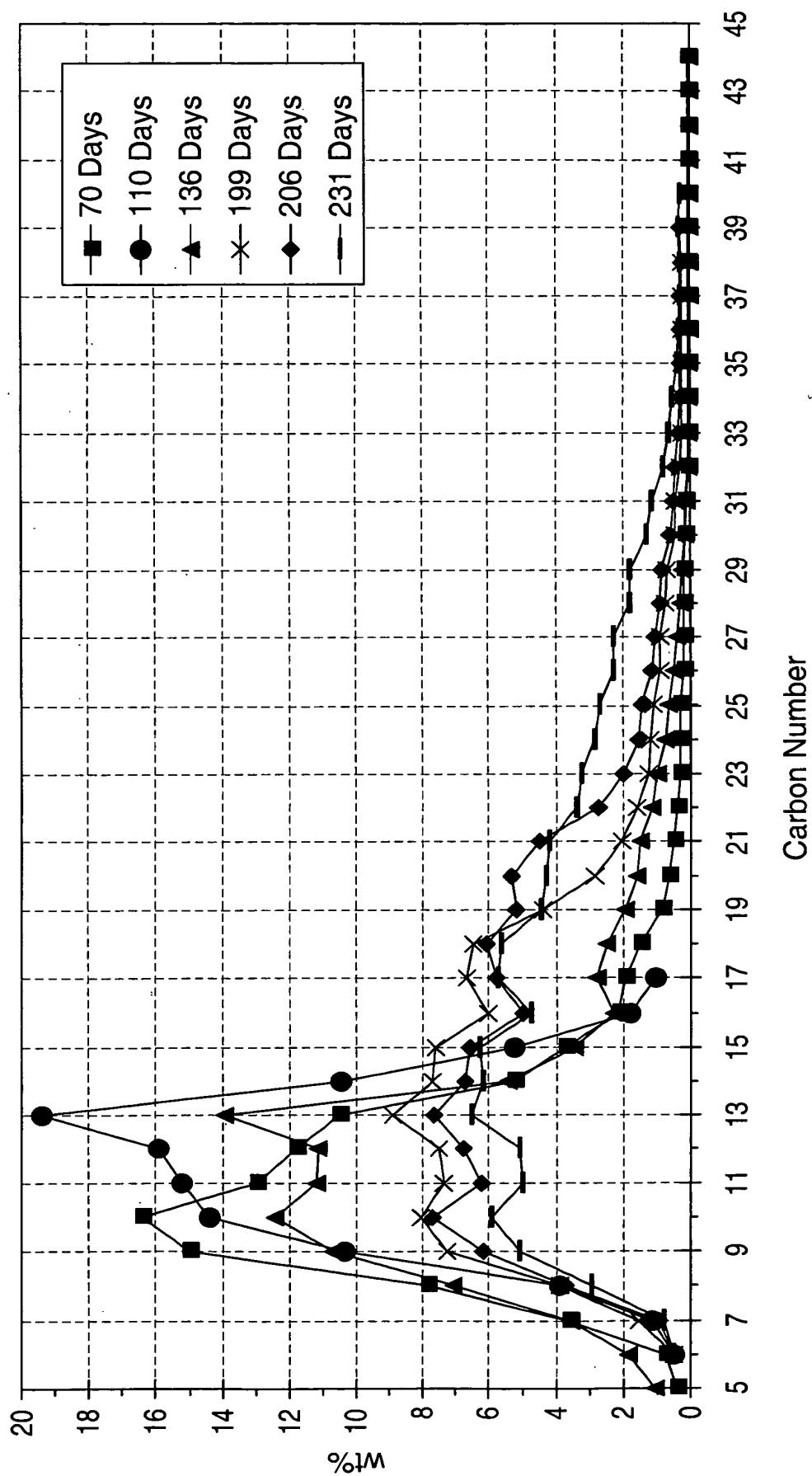


FIG. 111

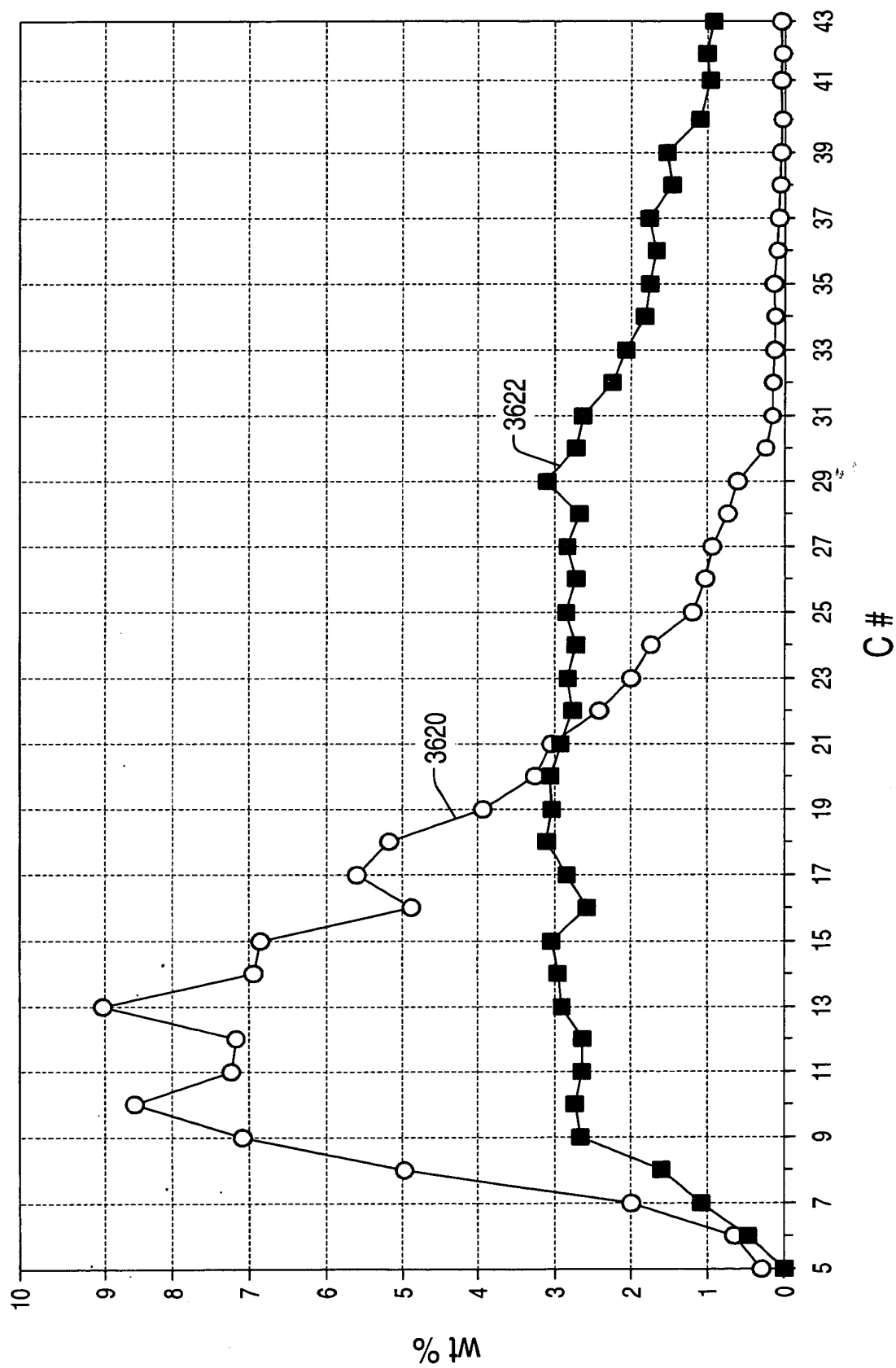


FIG. 112

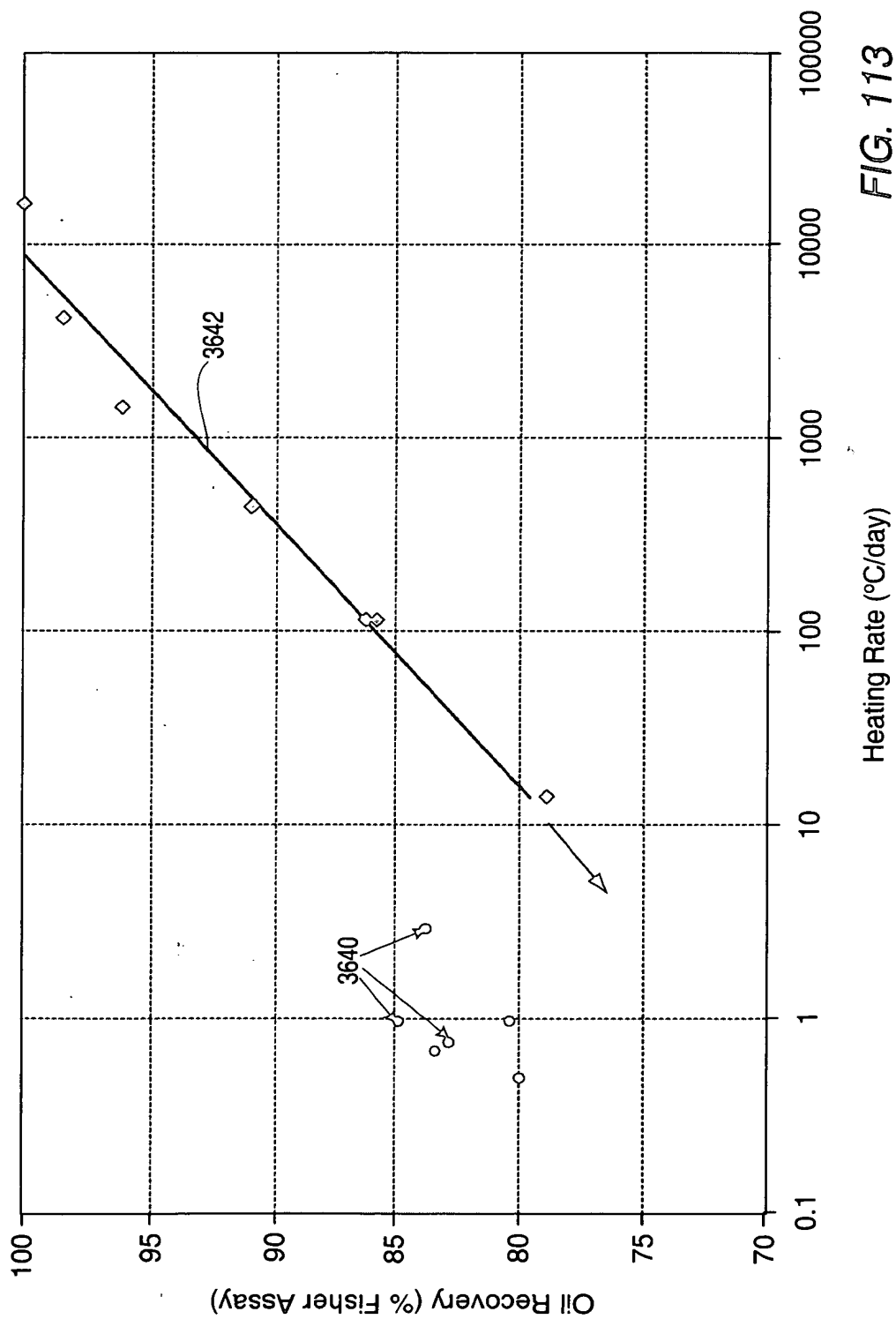


FIG. 113

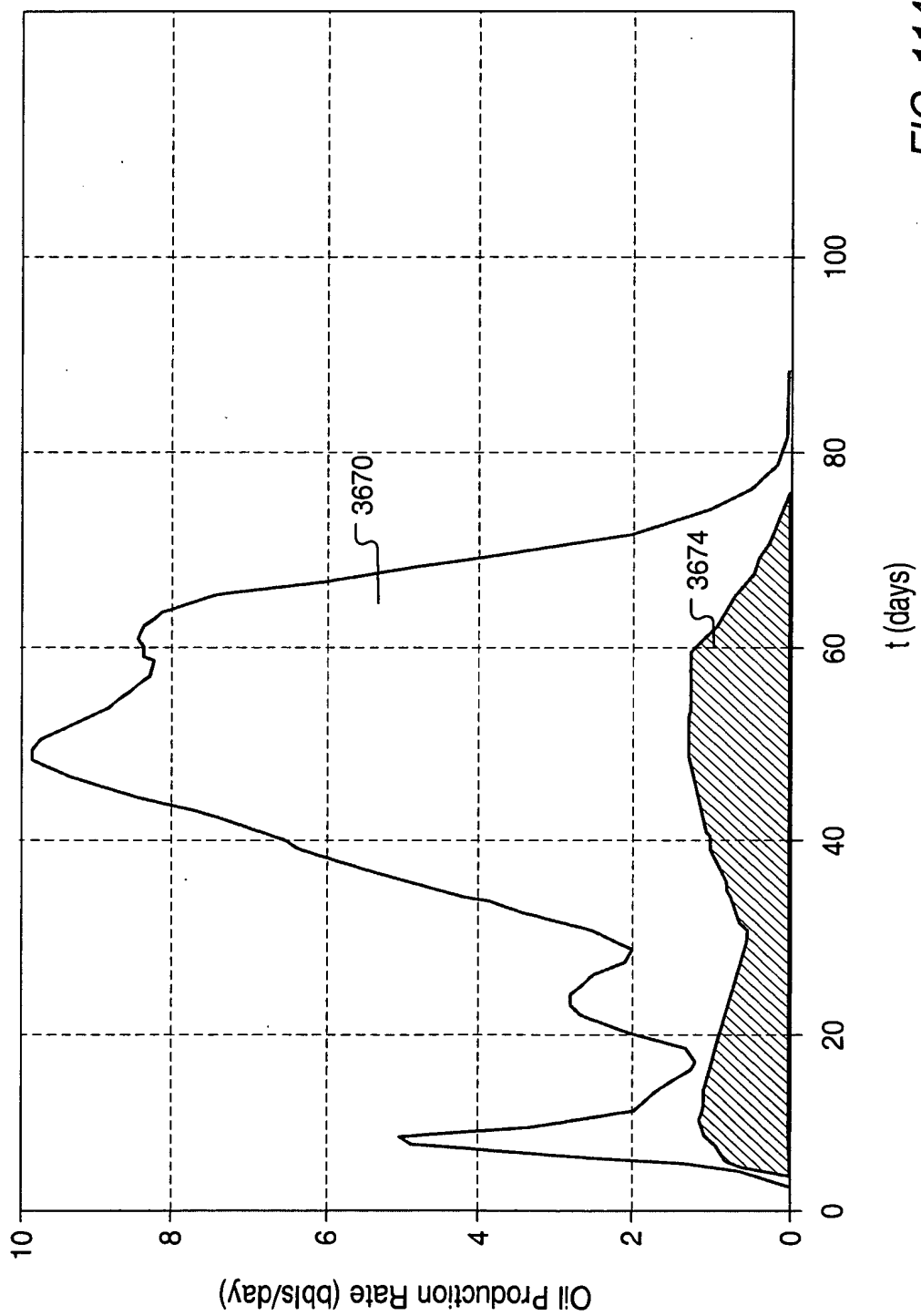


FIG. 114

1. The first part of the figure shows a series of data points plotted against Vitritine Reflectance (%). The y-axis is labeled 'Wt %' and ranges from 0 to 40. The x-axis is labeled 'Vitritine Reflectance (%)' and ranges from 0.2 to 1.4. The data points are represented by open triangles.

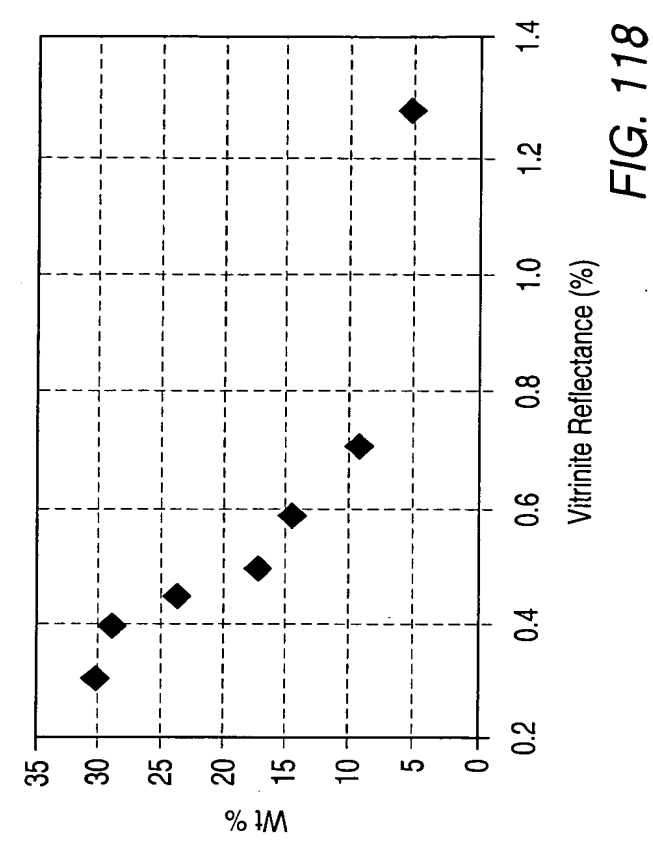
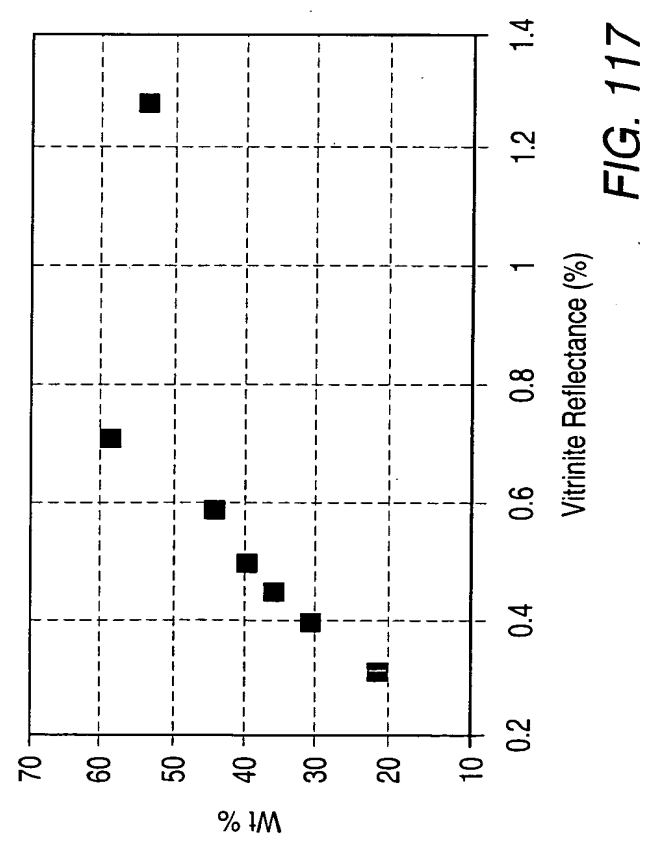
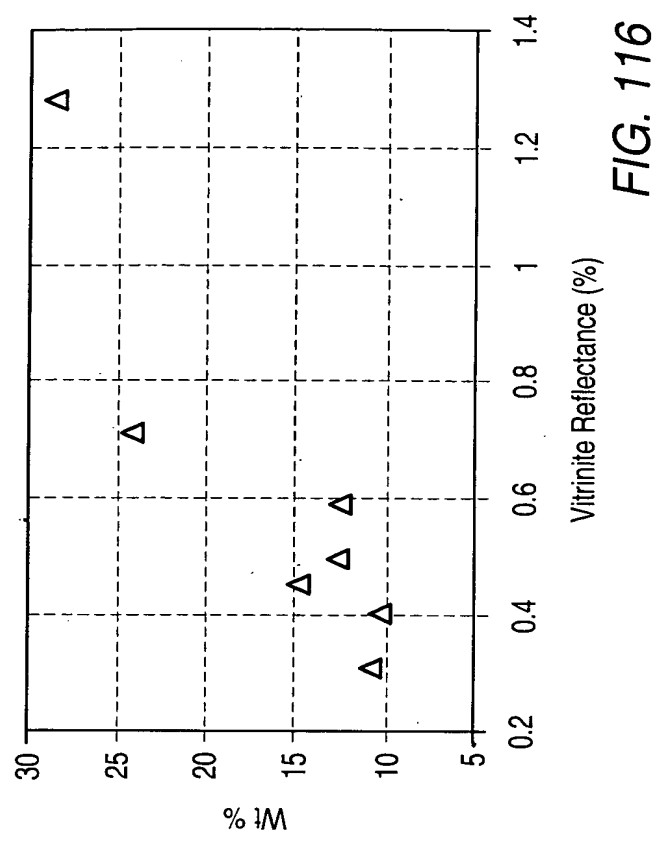
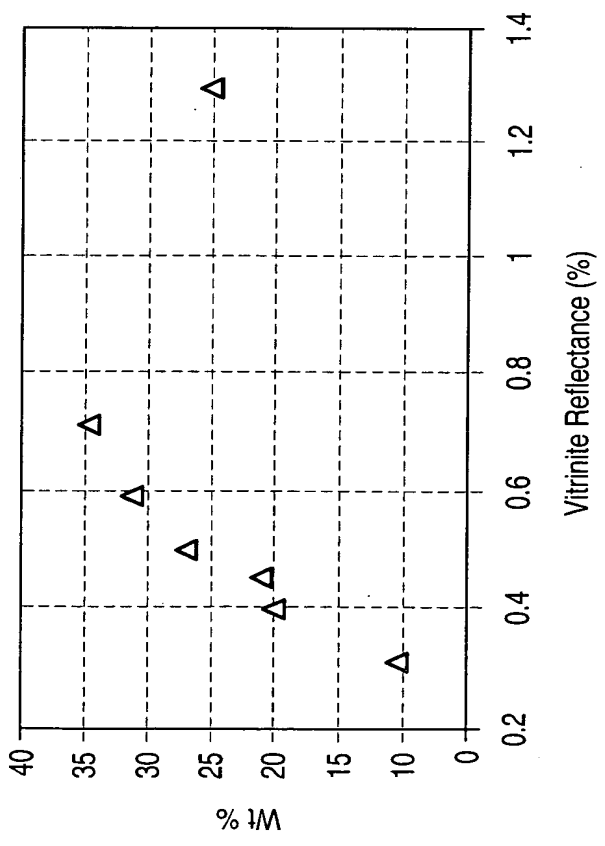


FIG. 118

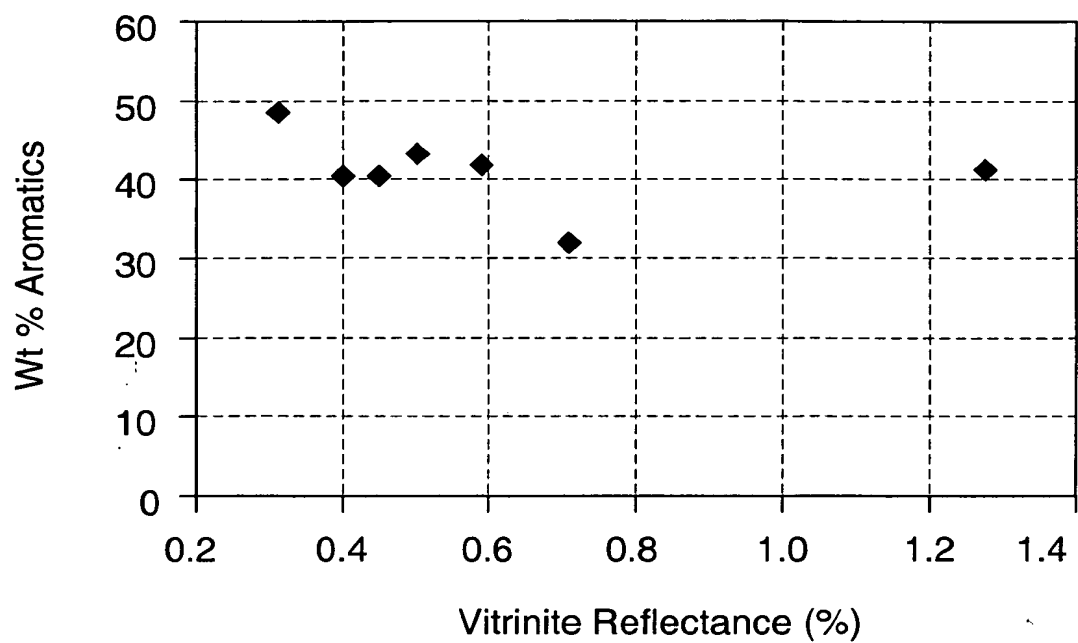


FIG. 119

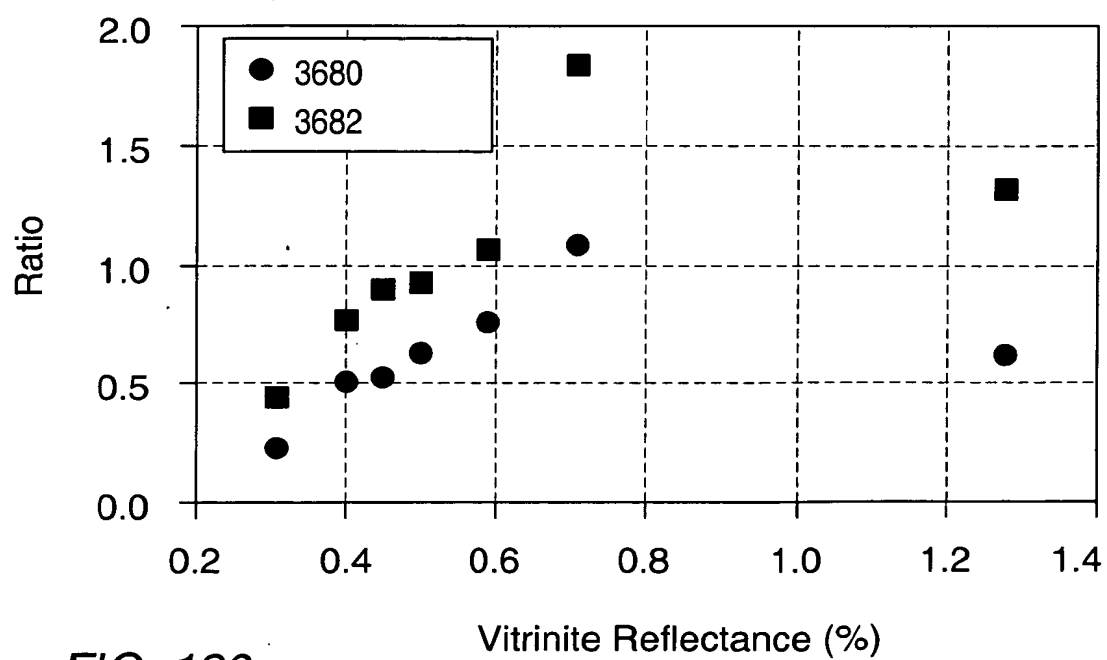
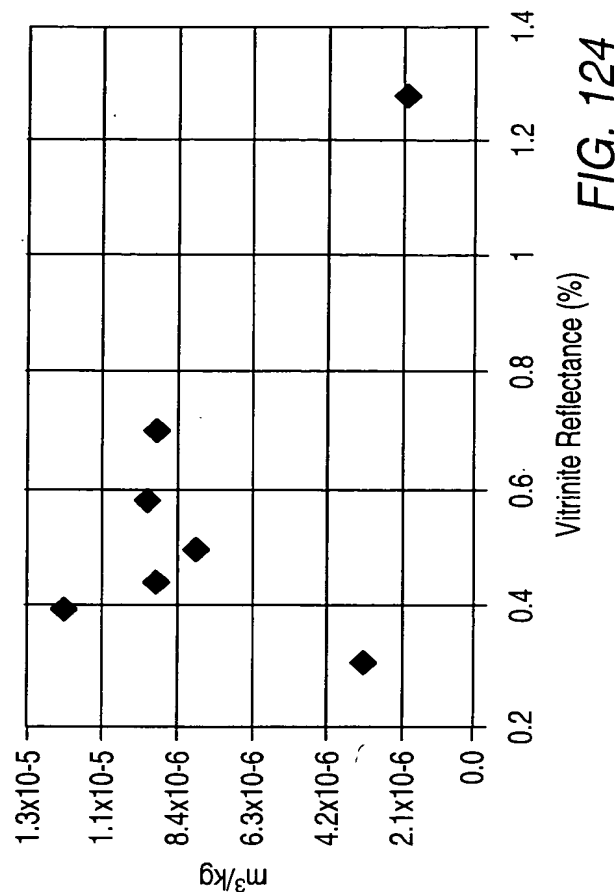
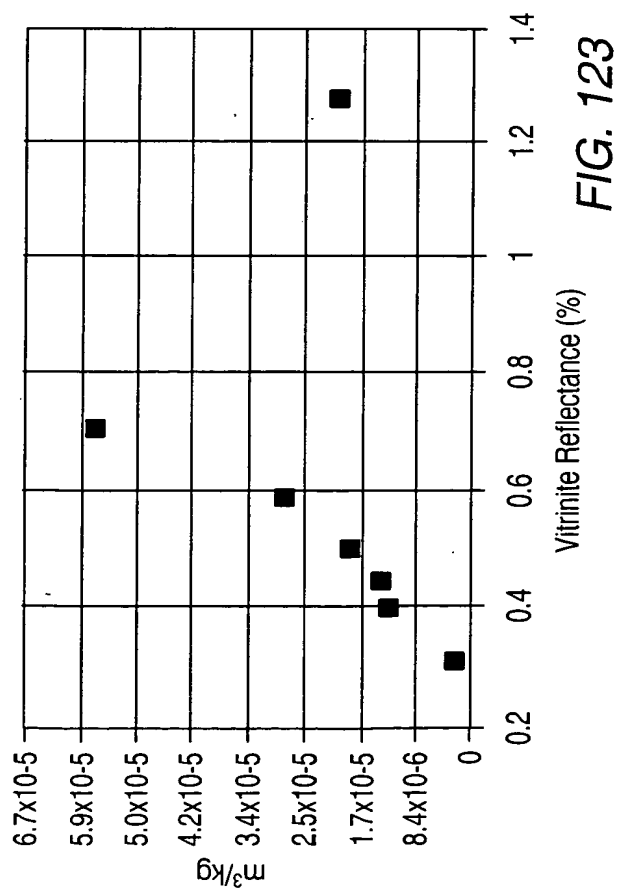
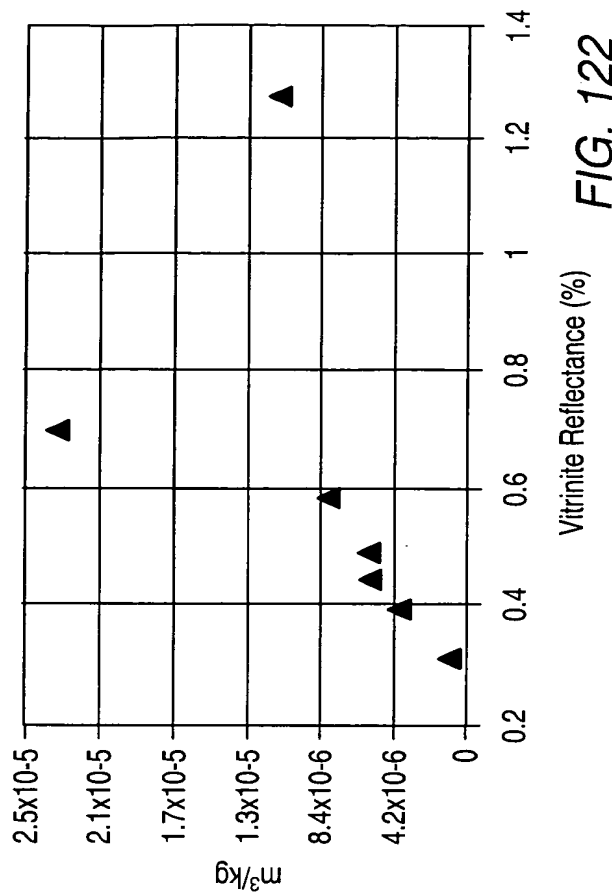
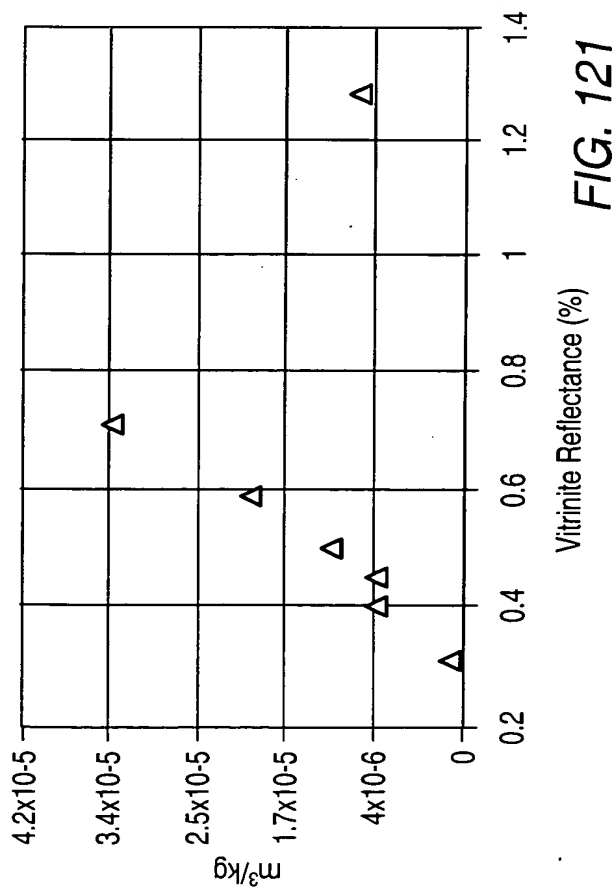


FIG. 120



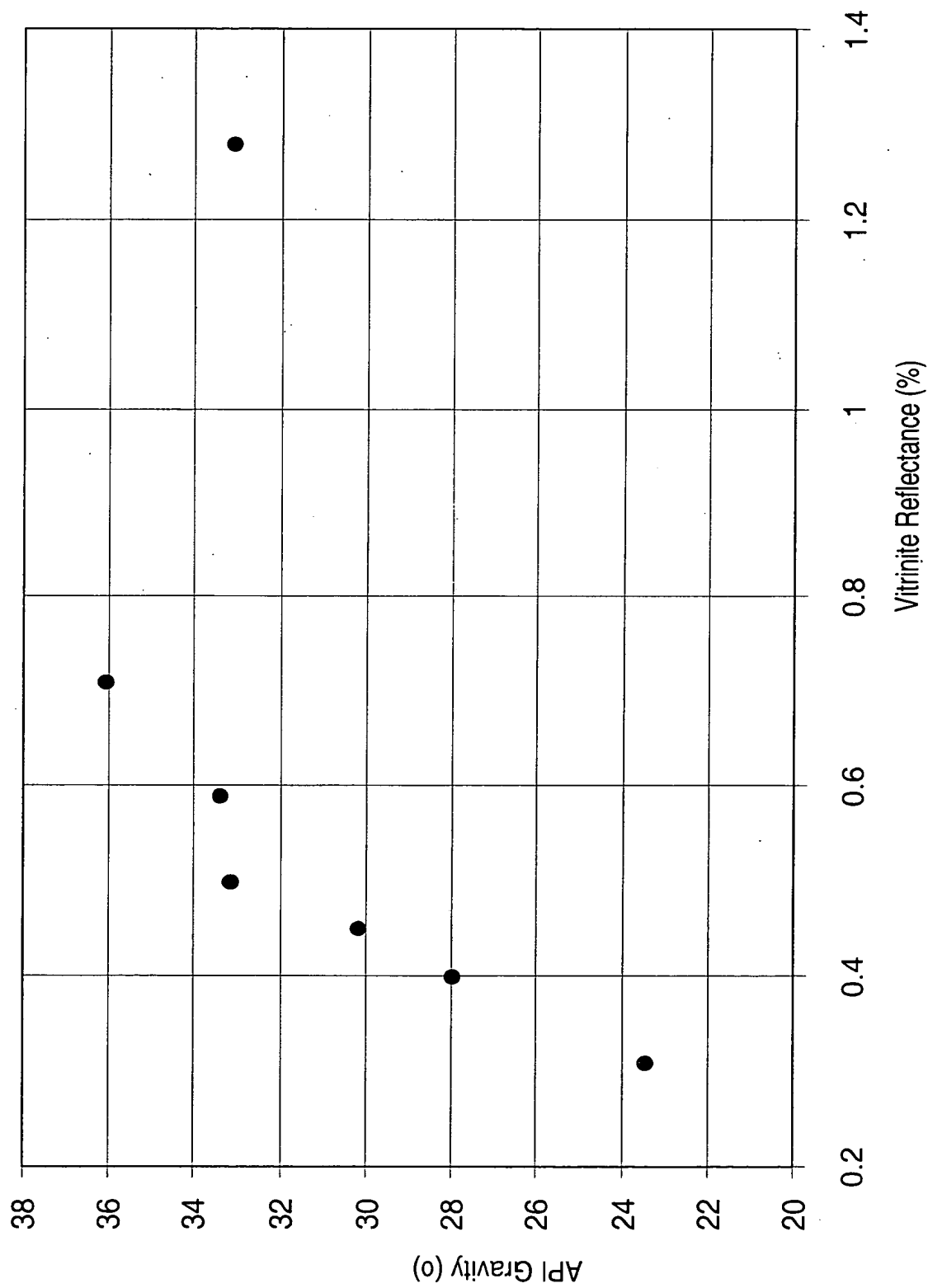
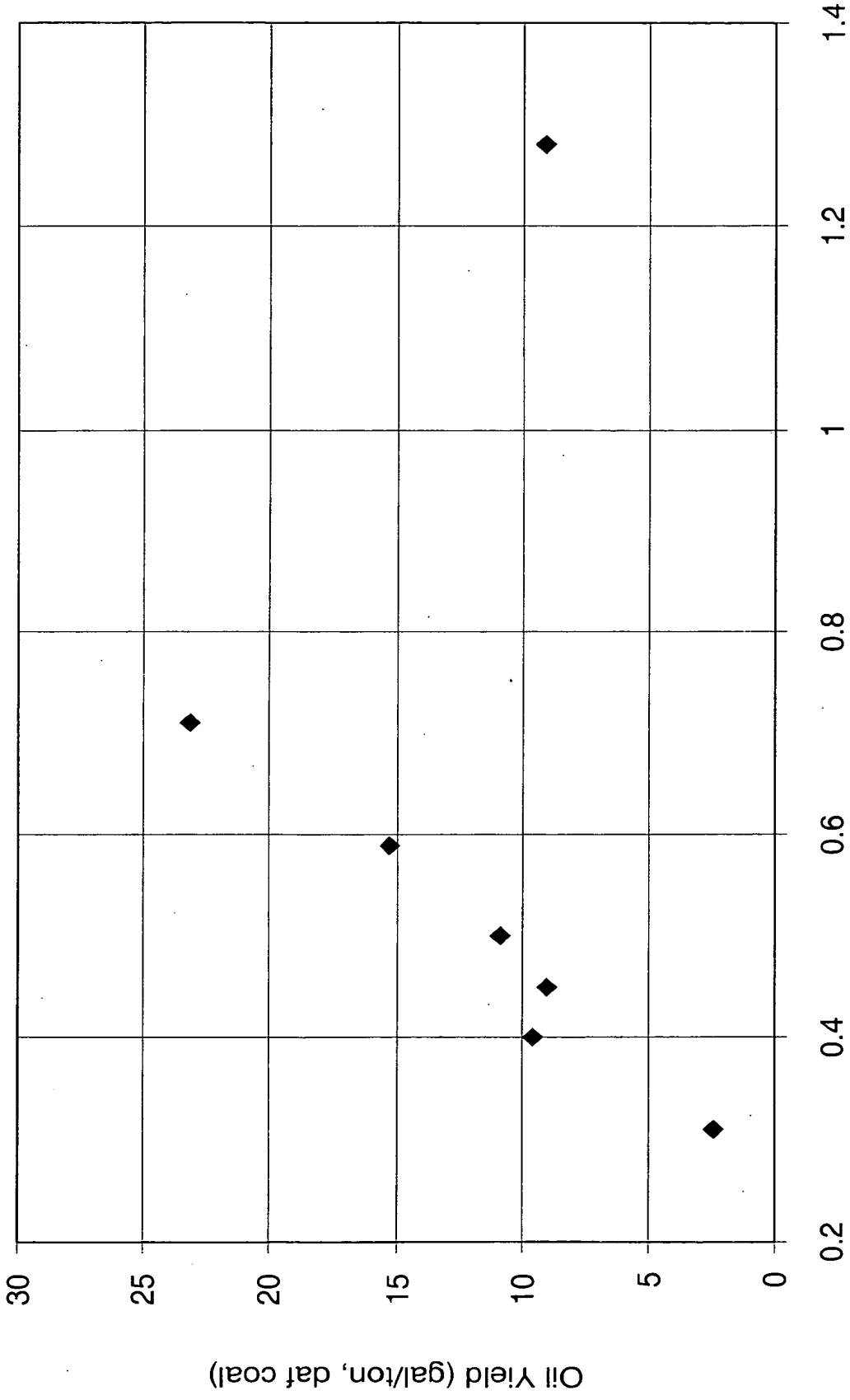


FIG. 125



Vitrinite Reflectance (%)

FIG. 126

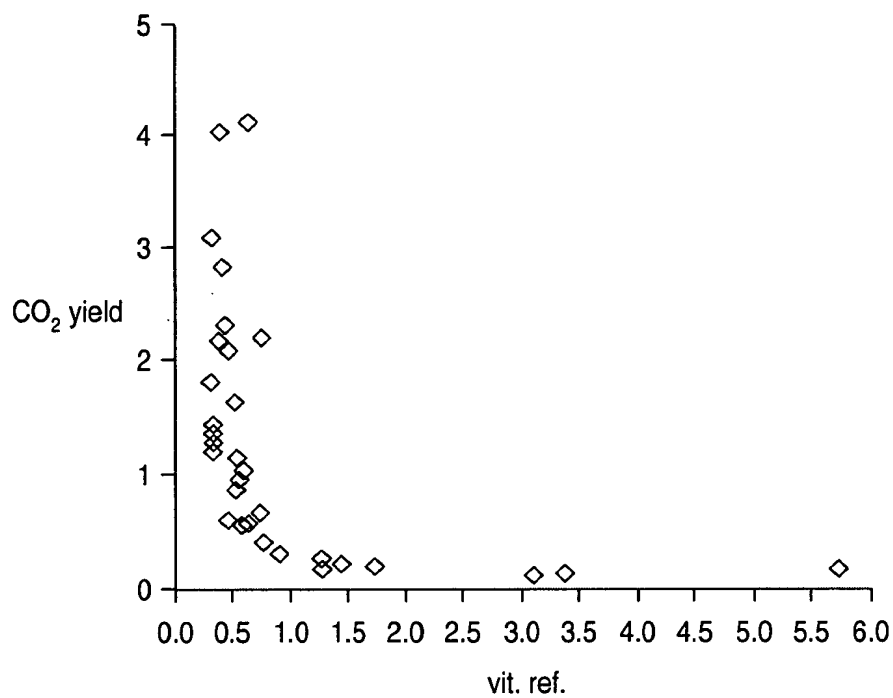


FIG. 127

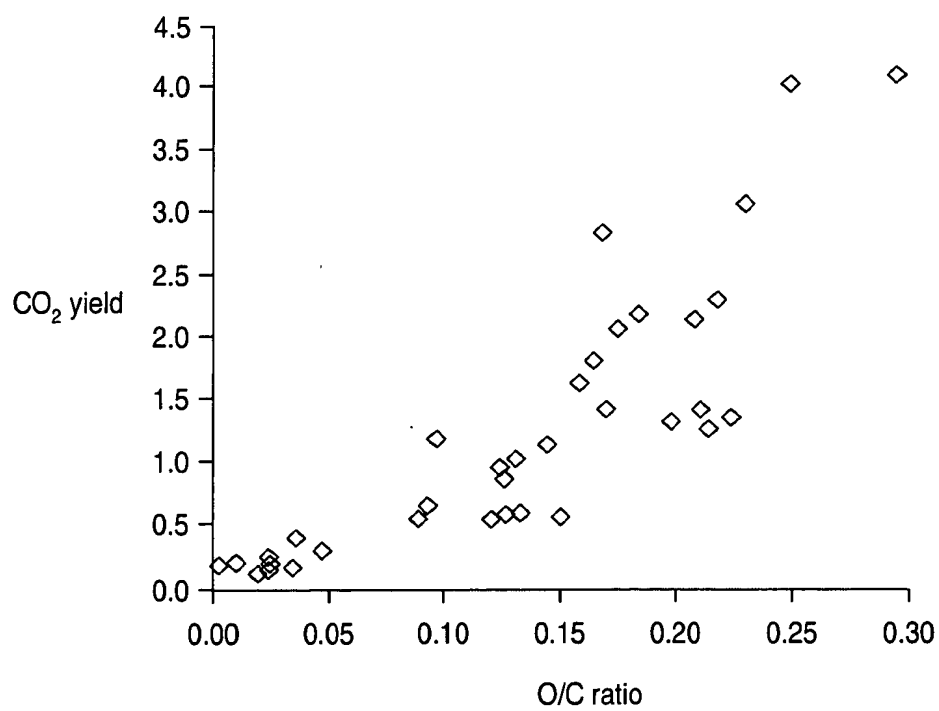


FIG. 128

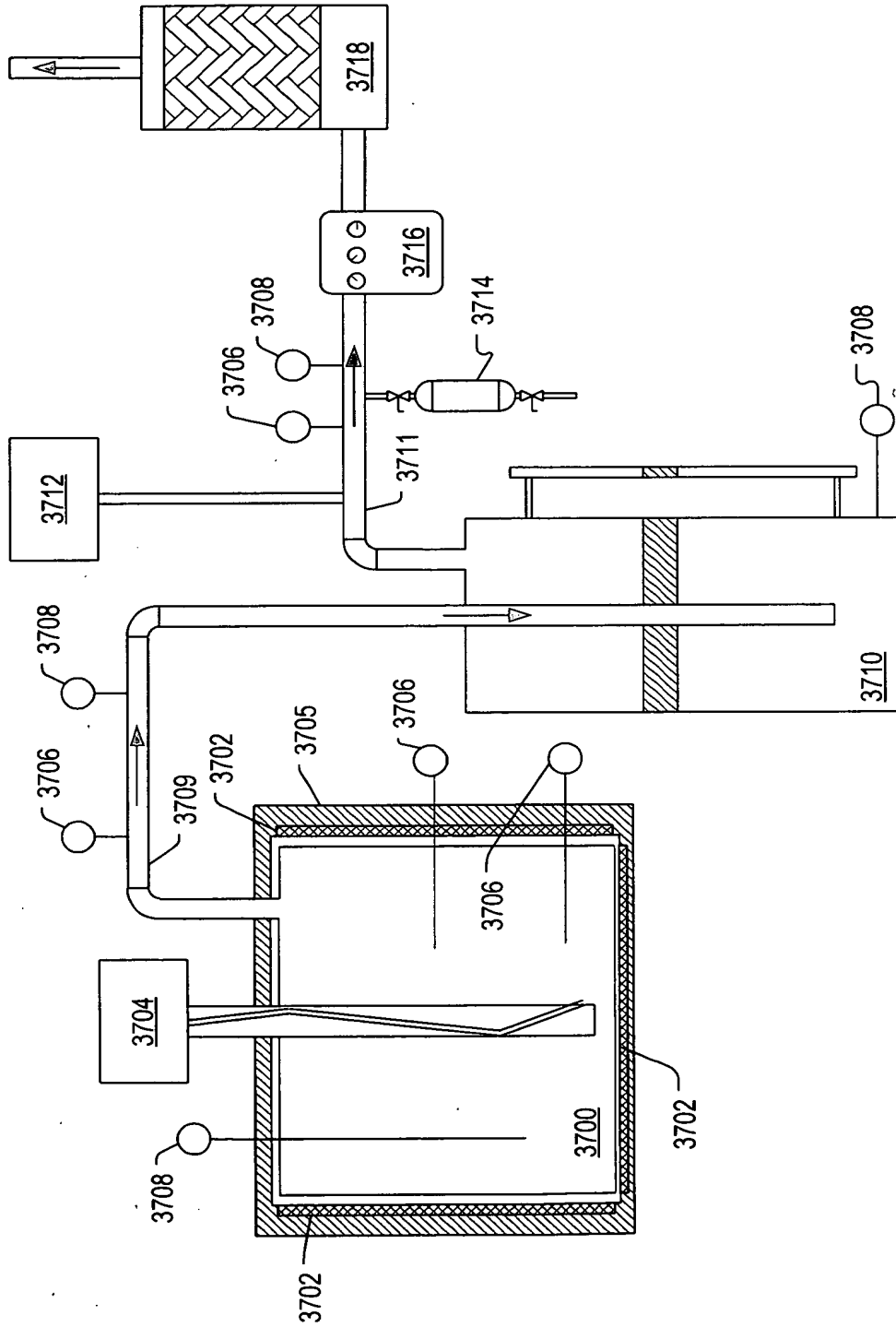


FIG. 129

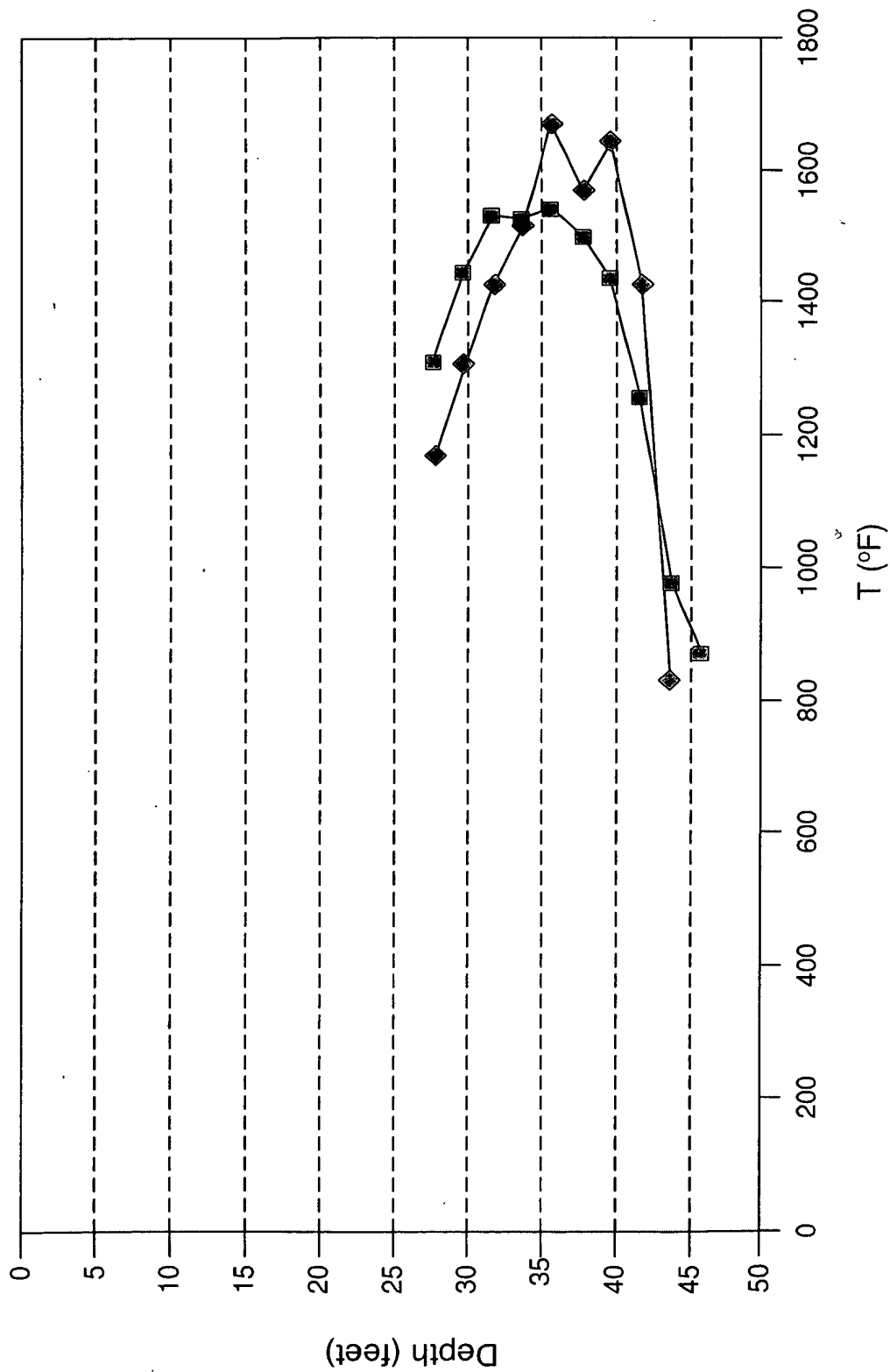


FIG. 130

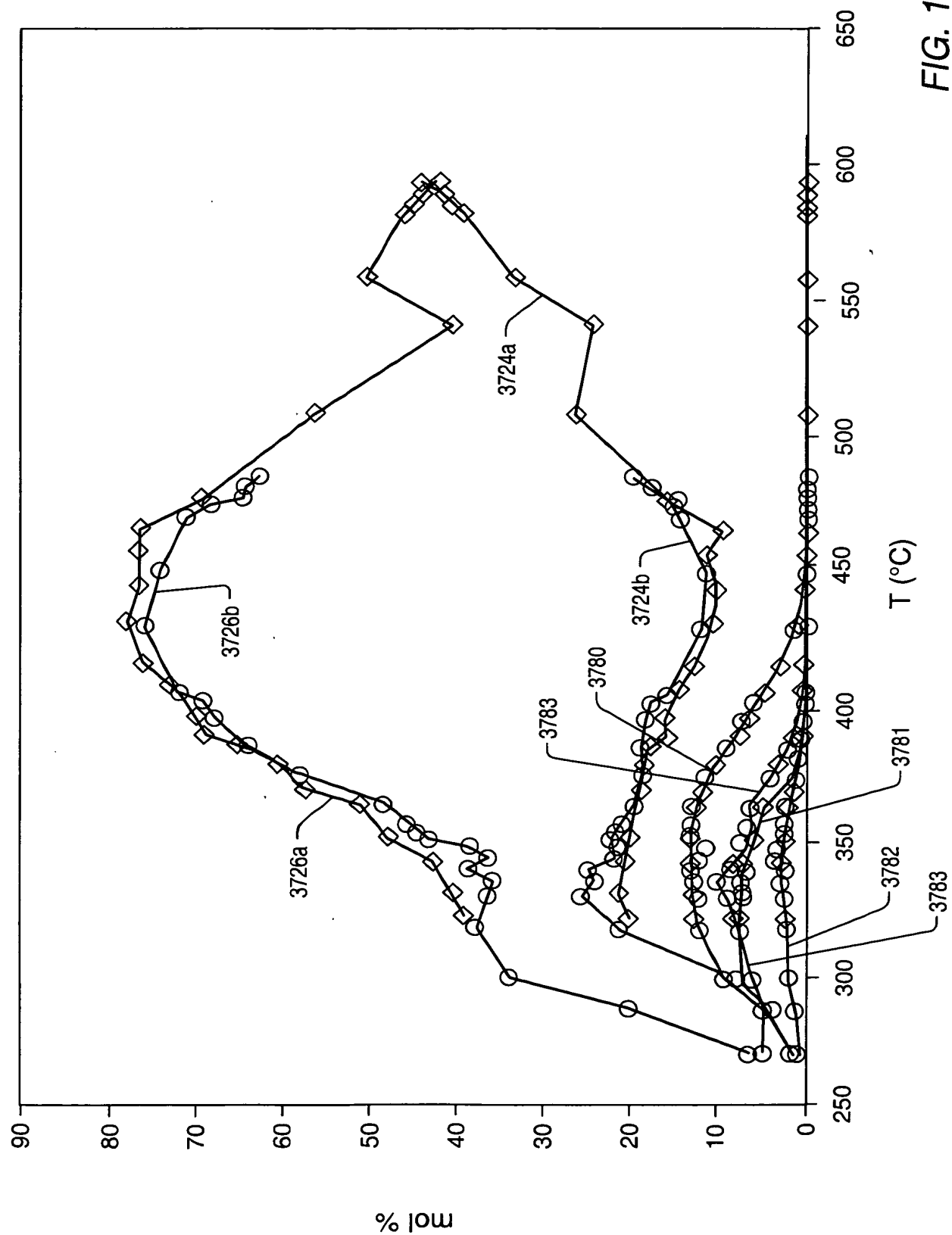


FIG. 131

FIG. 132 is a graph showing the relationship between the weight loss (L/kg) and the temperature (T in °C) for two different samples, 3790 and 3791. The y-axis represents weight loss (L/kg) ranging from 0 to 140. The x-axis represents temperature (T in °C) ranging from 0 to 600. Both curves show a sharp increase in weight loss starting around 300°C, with curve 3790 reaching a higher weight loss than curve 3791 at higher temperatures.

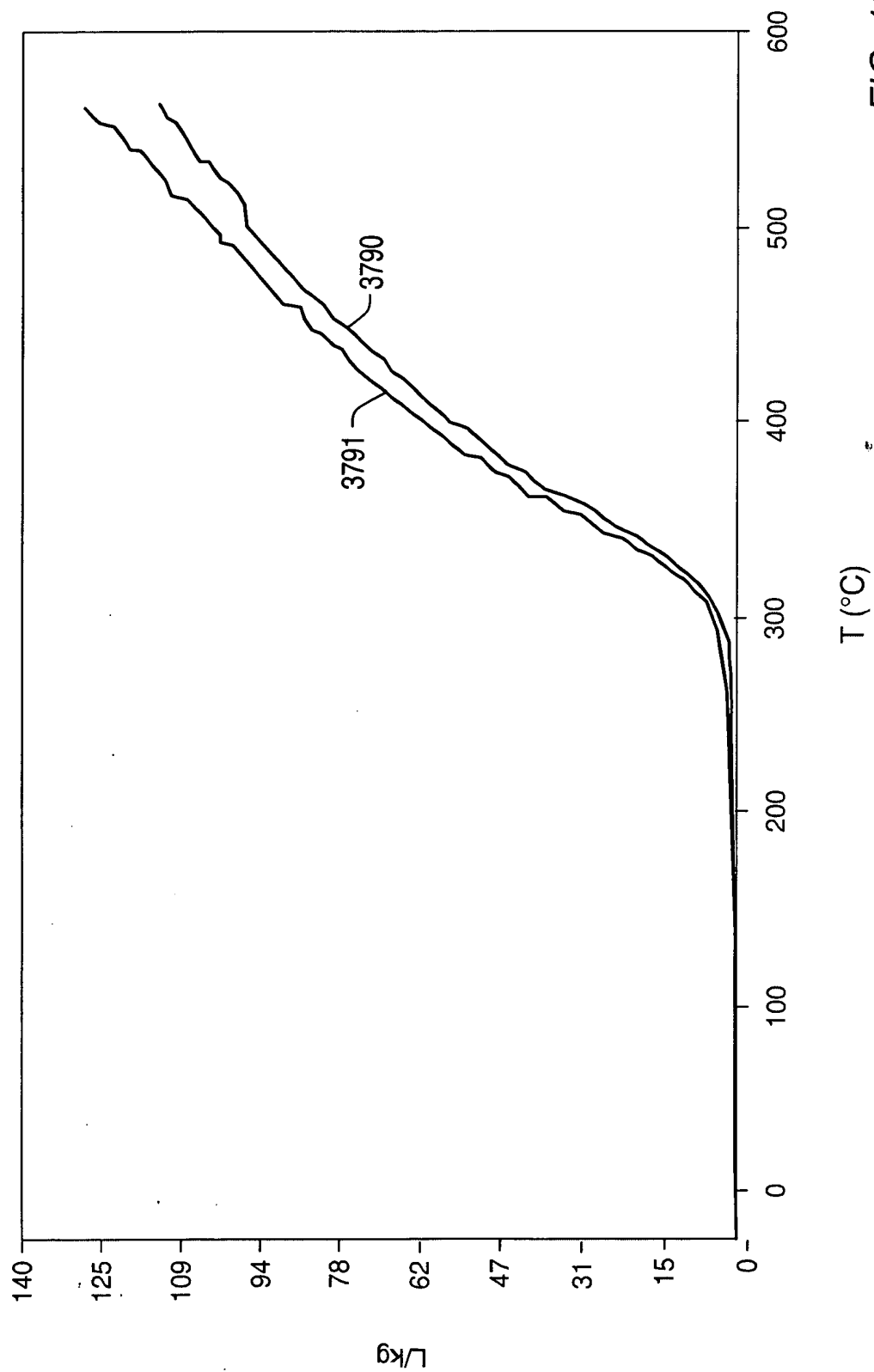


FIG. 132

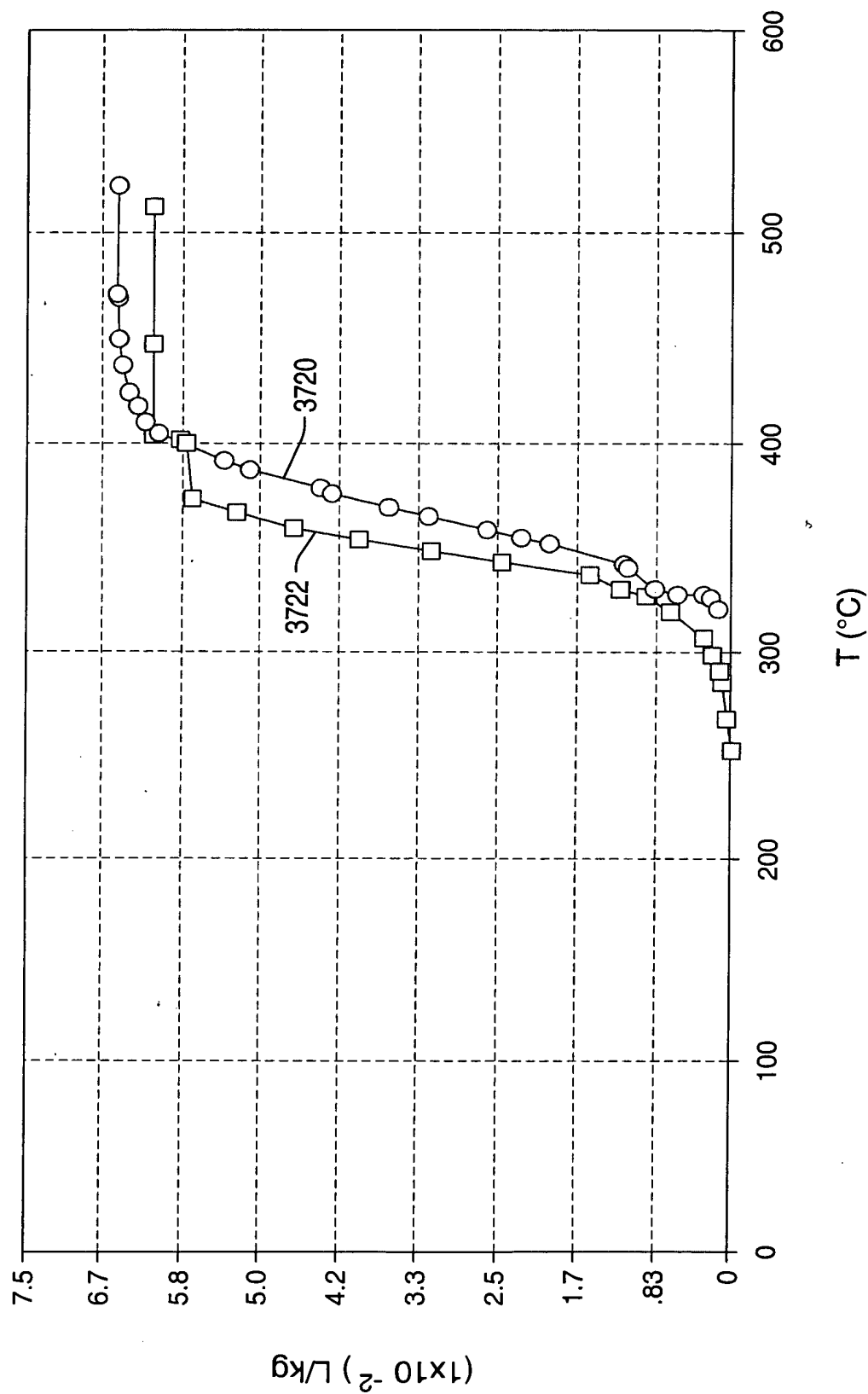


FIG. 133

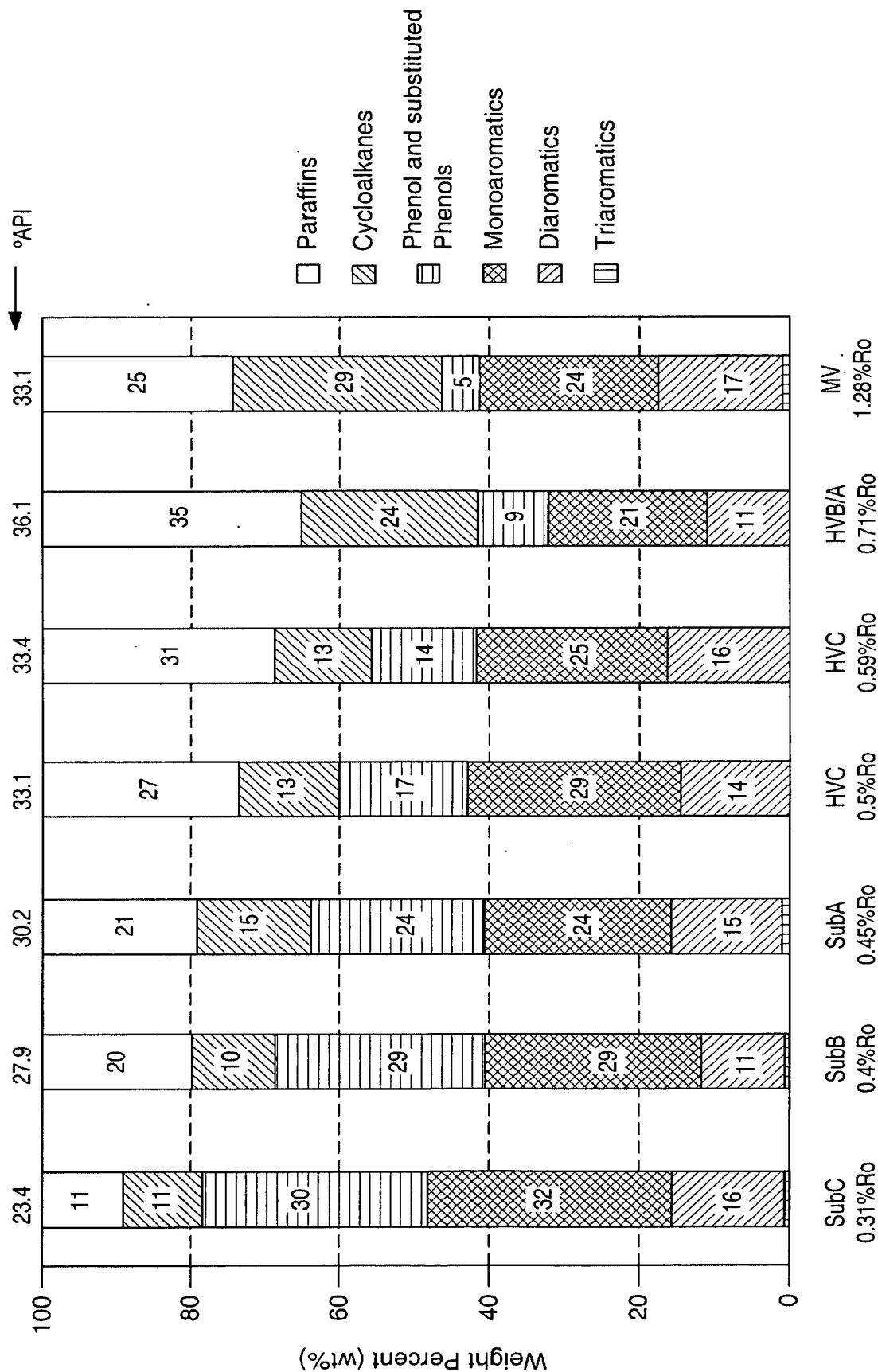


FIG. 134

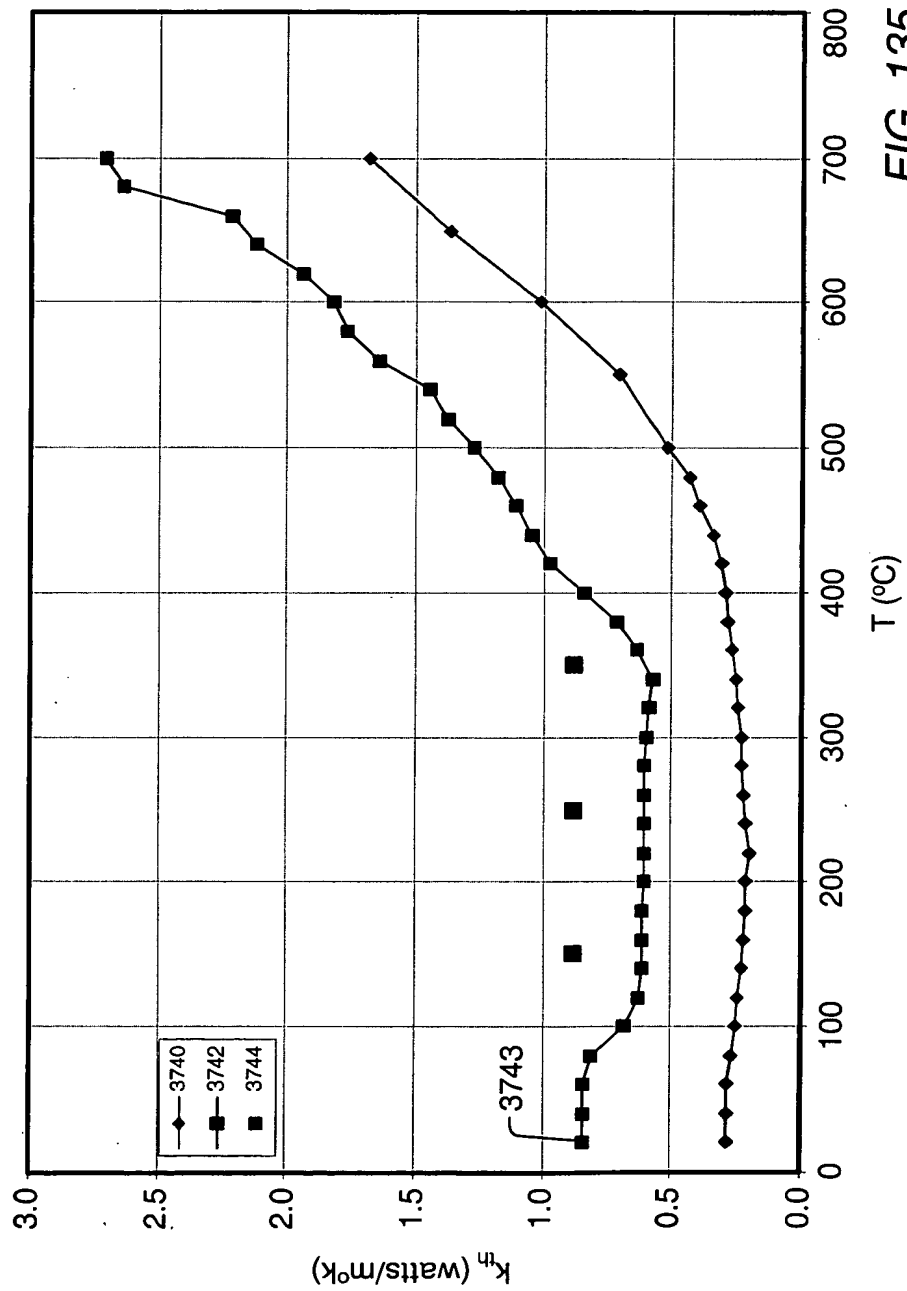


FIG. 135

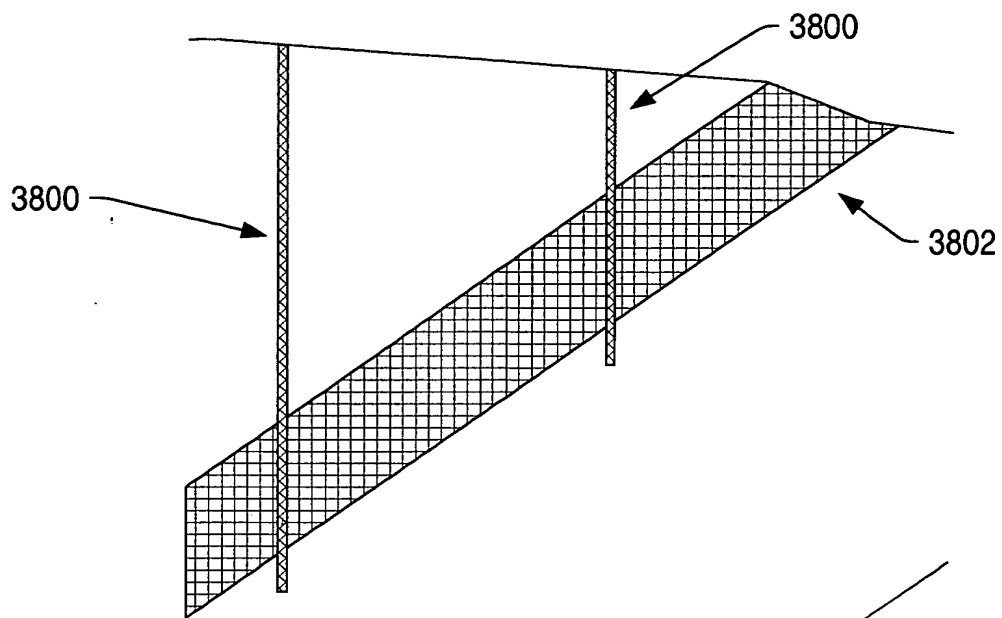


FIG. 136

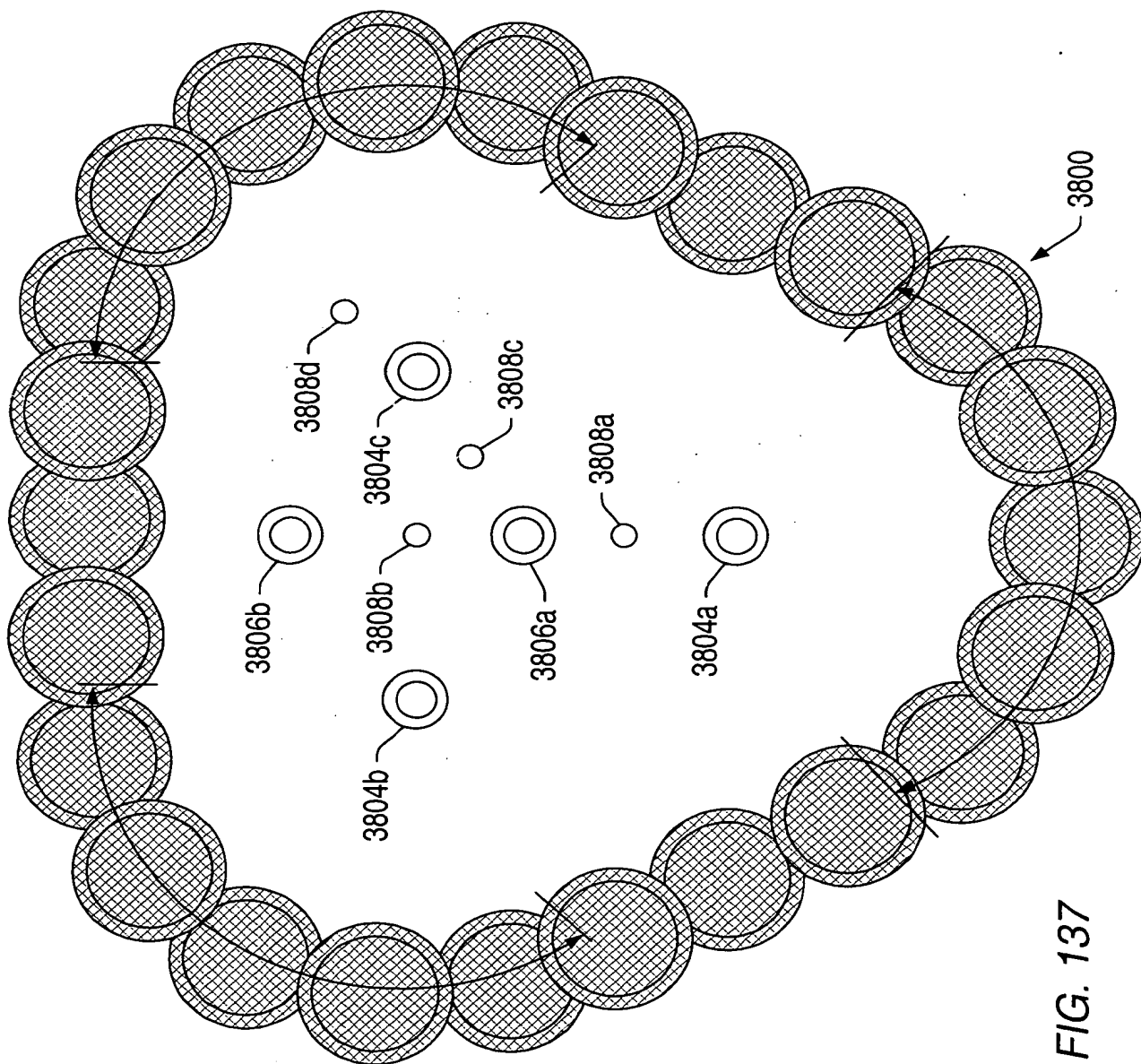


FIG. 137

10400000000

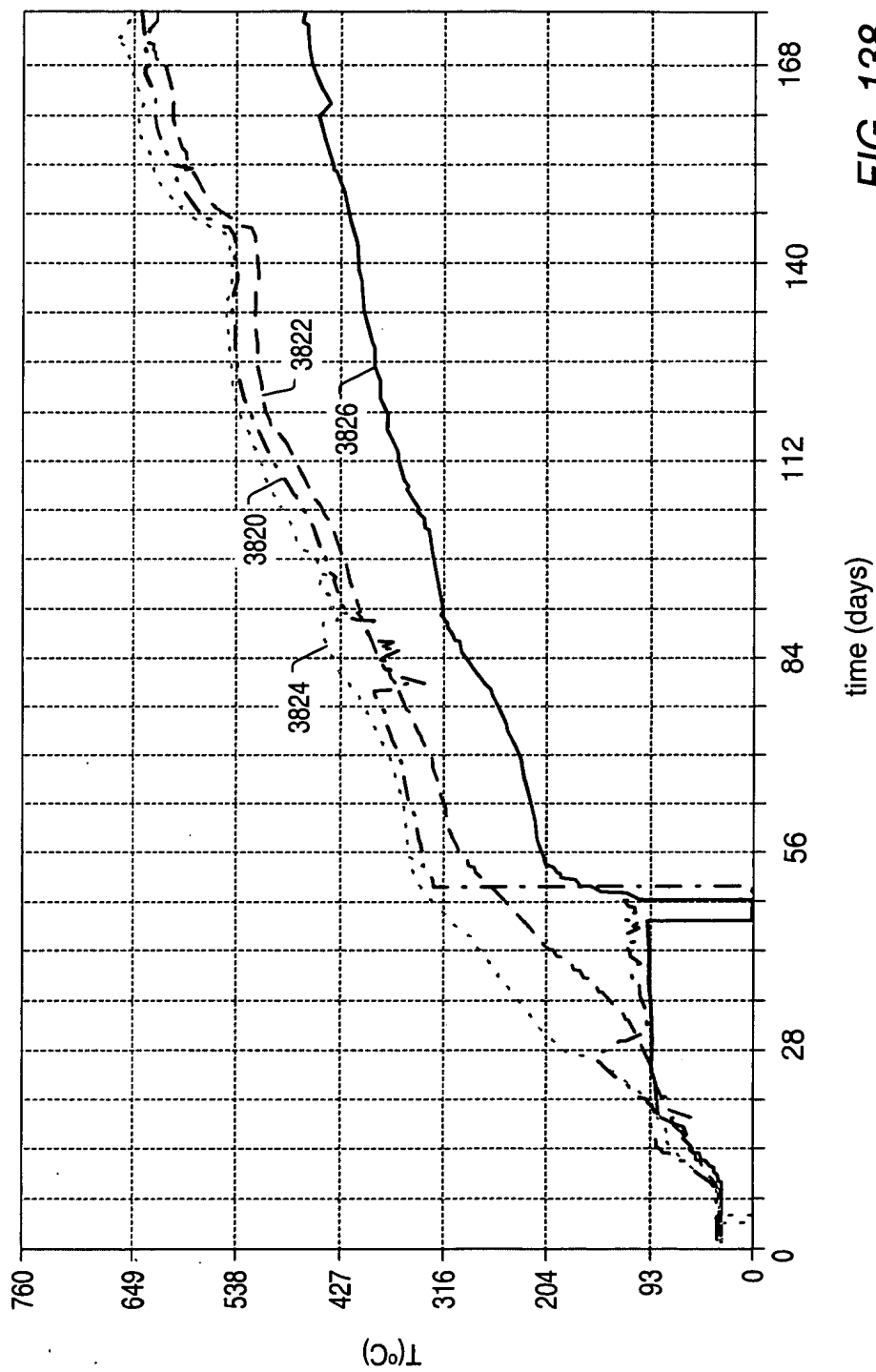


FIG. 138

Figure 1 is a line graph showing the temperature $T(^{\circ}\text{C})$ on the y-axis versus time (days) on the x-axis. The y-axis ranges from 0 to 871 with major ticks every 100 units. The x-axis ranges from 0 to 224 with major ticks every 28 units. The graph displays multiple data series, likely representing different experimental runs or conditions, which are plotted as lines with various markers (circles, squares, triangles, etc.). The temperature starts at approximately 224°C at day 0, drops sharply to about 196°C by day 1, and then remains relatively stable around 196°C until day 148. After day 148, the temperature begins to rise, reaching approximately 224°C by day 224. The graph includes a grid and several data series represented by different symbols (circles, squares, triangles, etc.). Key points on the temperature curve are labeled: 3832, 3834, and 3830.

time (days)

Figure 140 is a plot showing the normalized velocity $V(m_3)$ on the vertical axis versus time (days) on the horizontal axis. The vertical axis ranges from 0 to 0.78 with major ticks every 0.08. The horizontal axis ranges from 0 to 135 with major ticks every 5 days. The data points, represented by open circles, show a sharp increase in velocity starting around day 70, reaching a peak of approximately 0.61 around day 110, and then gradually decreasing to about 0.30 by day 135. A label '3840' is placed near the peak of the curve.

time (days)

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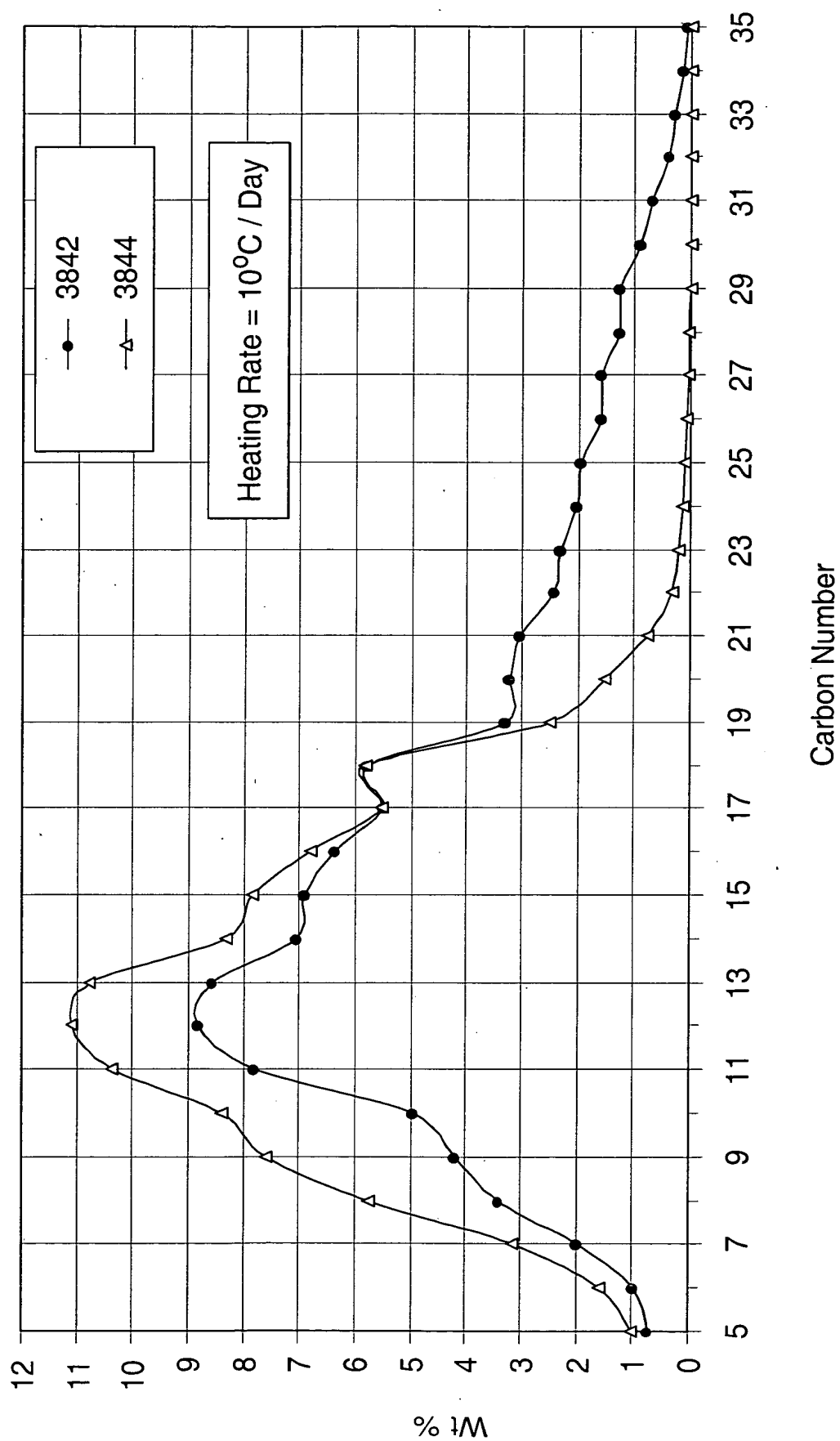


FIG. 142

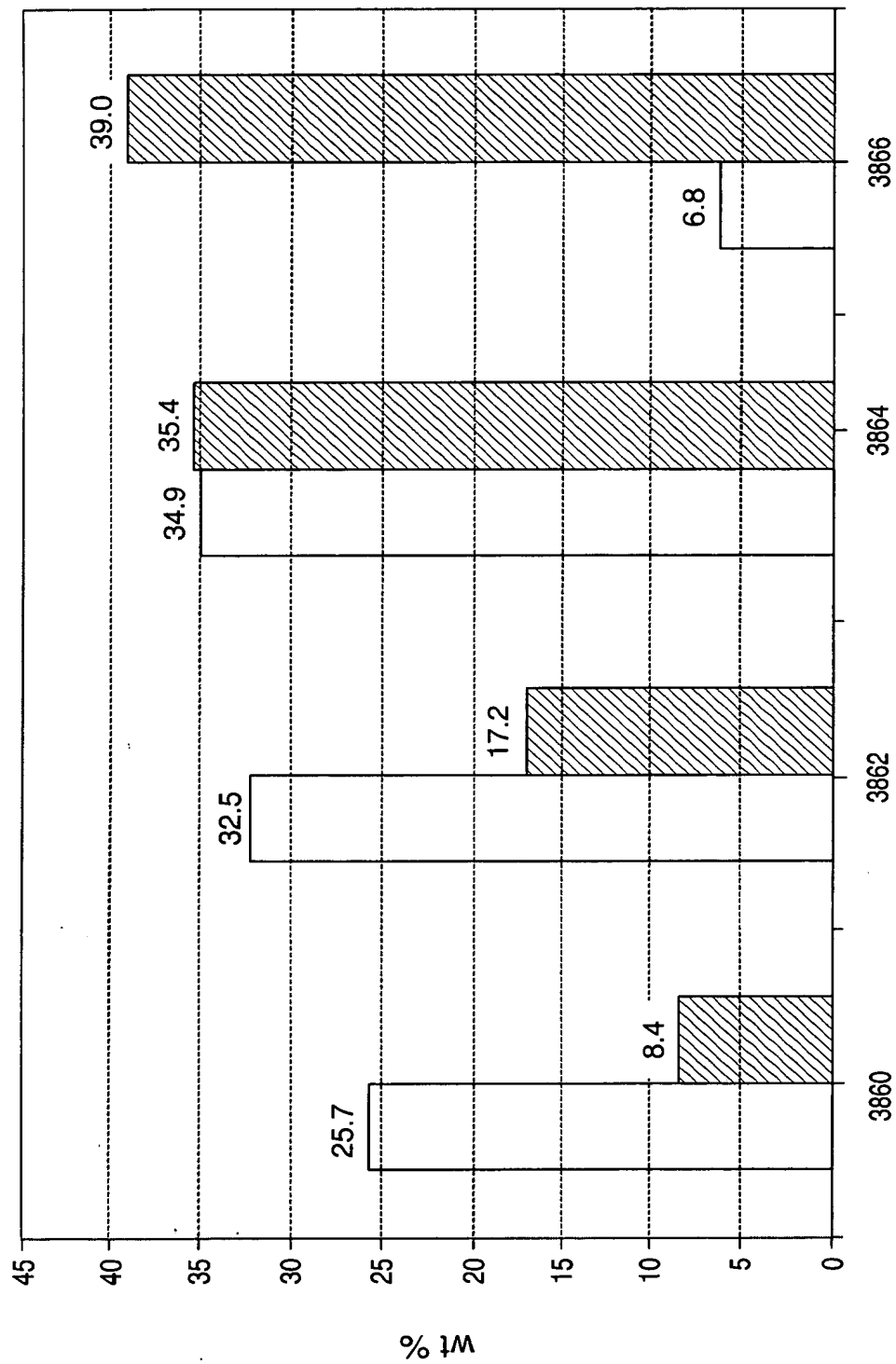


FIG. 143

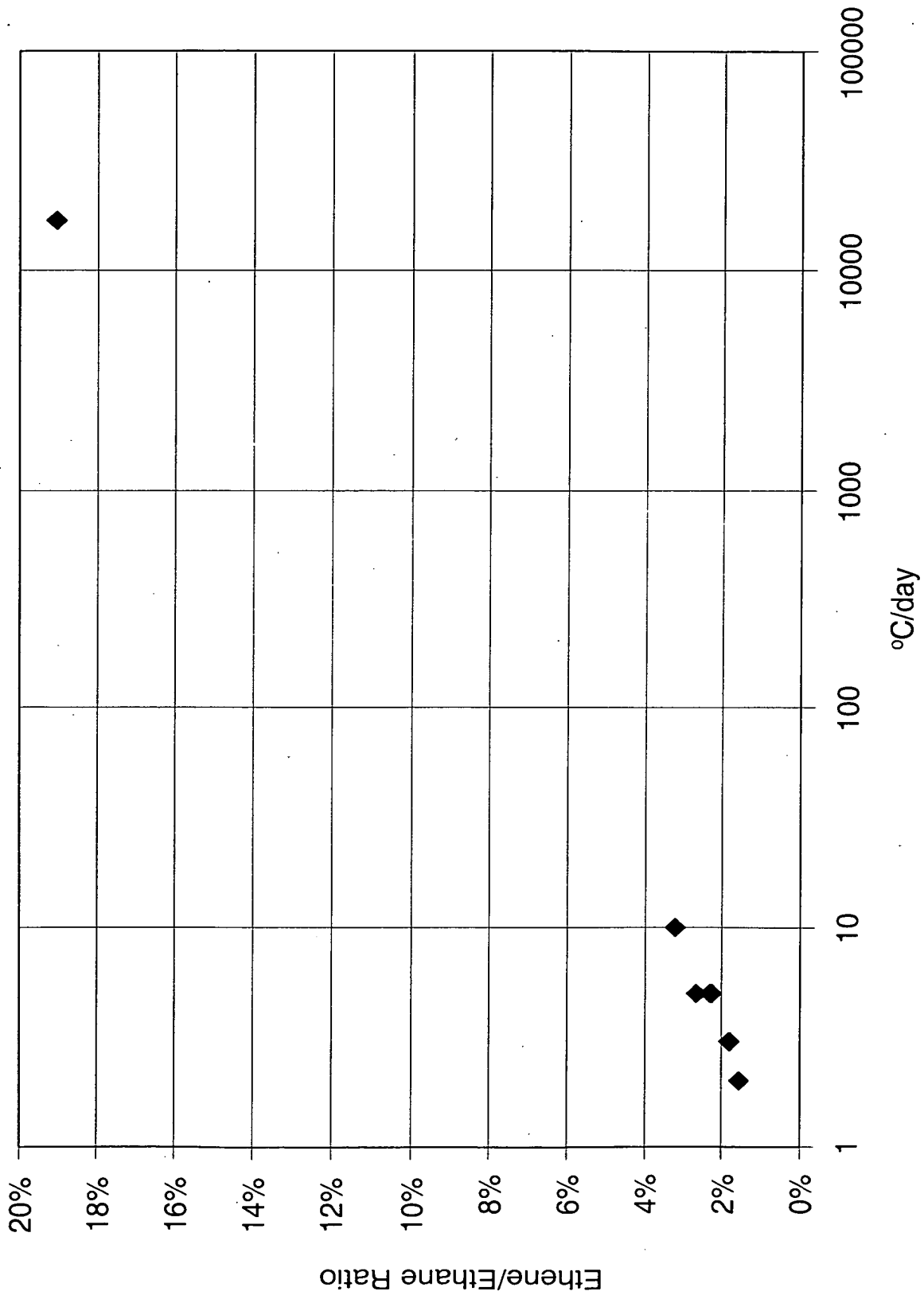


FIG. 144

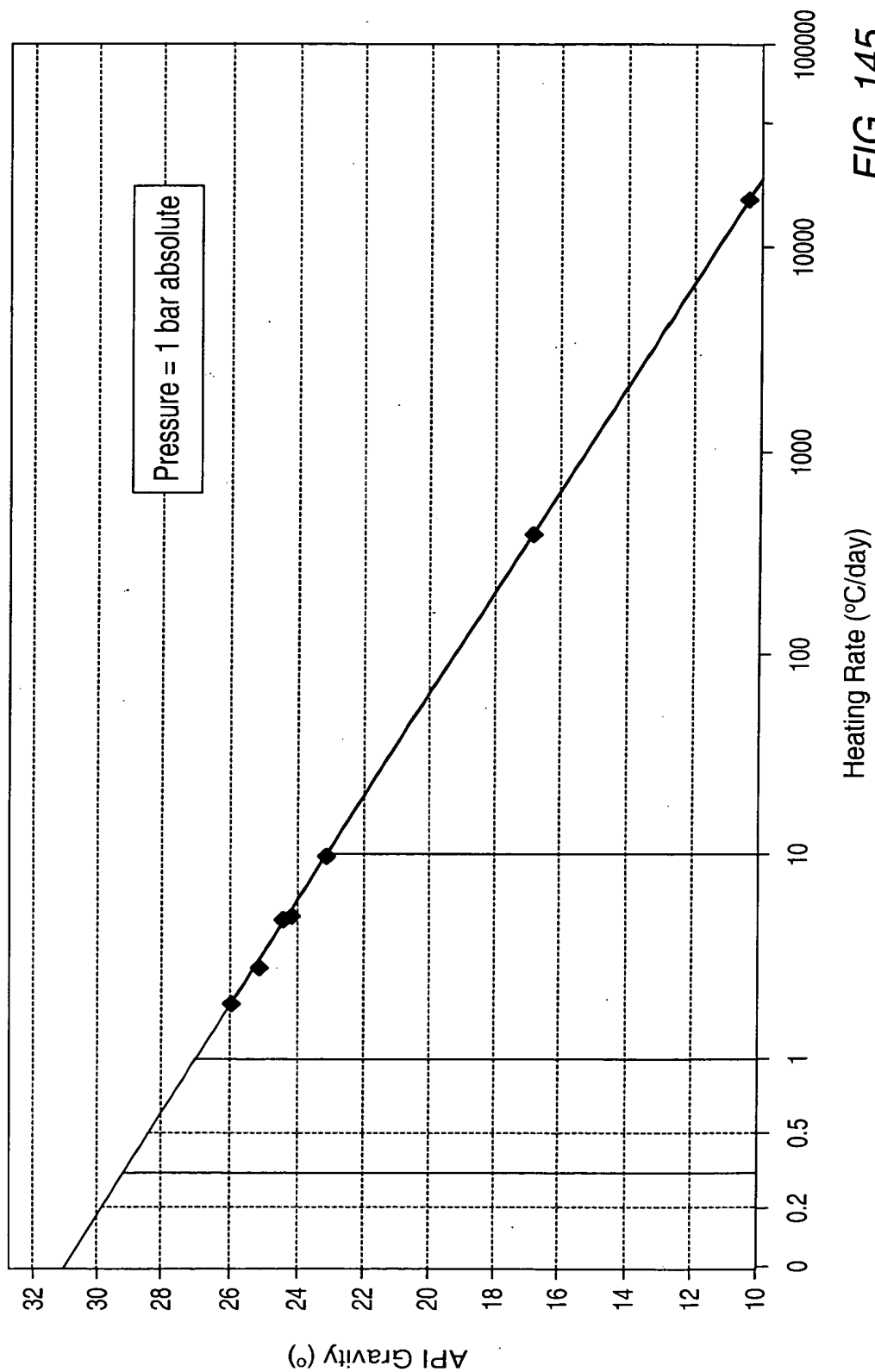


FIG. 145

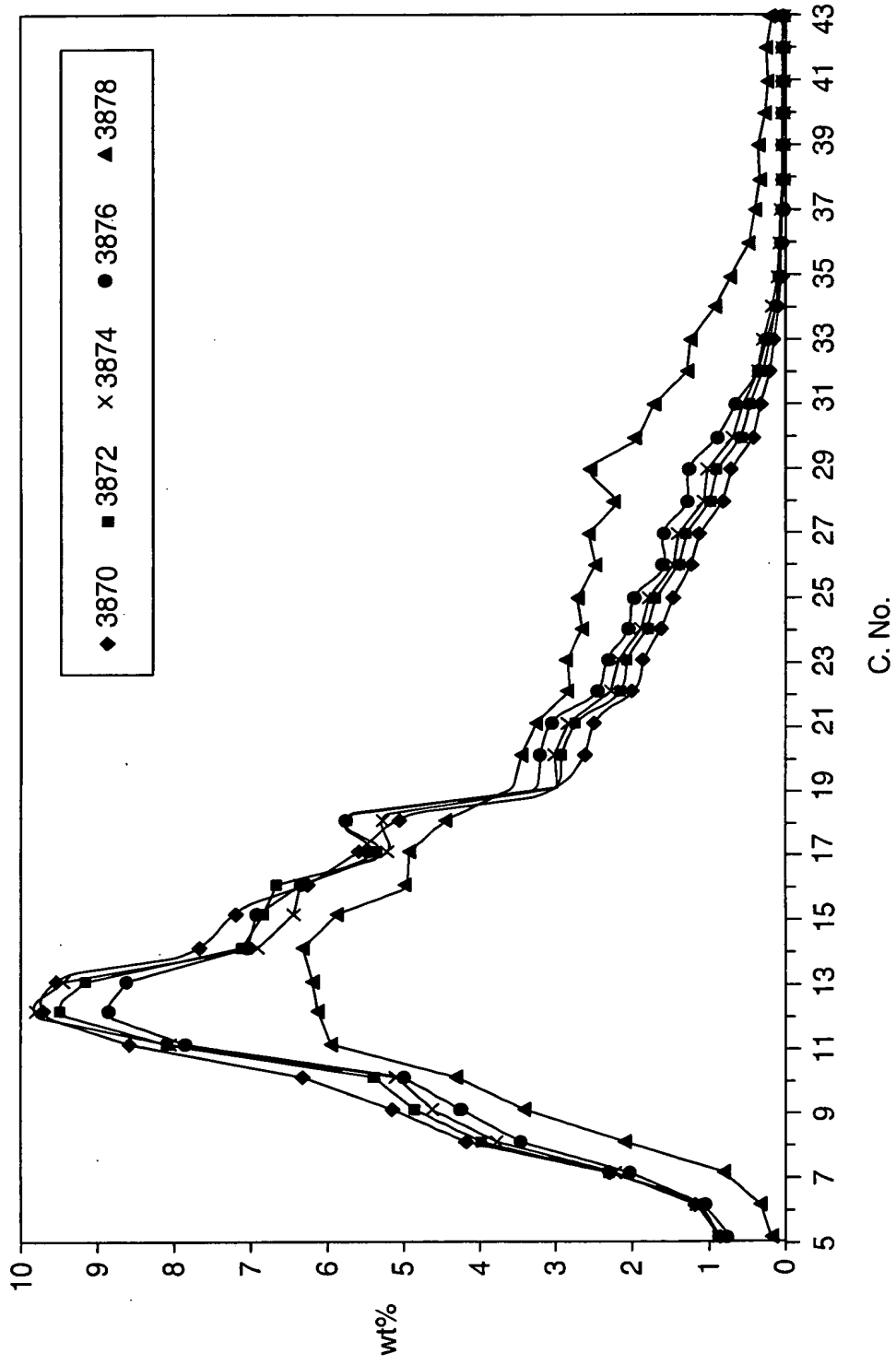


FIG. 146

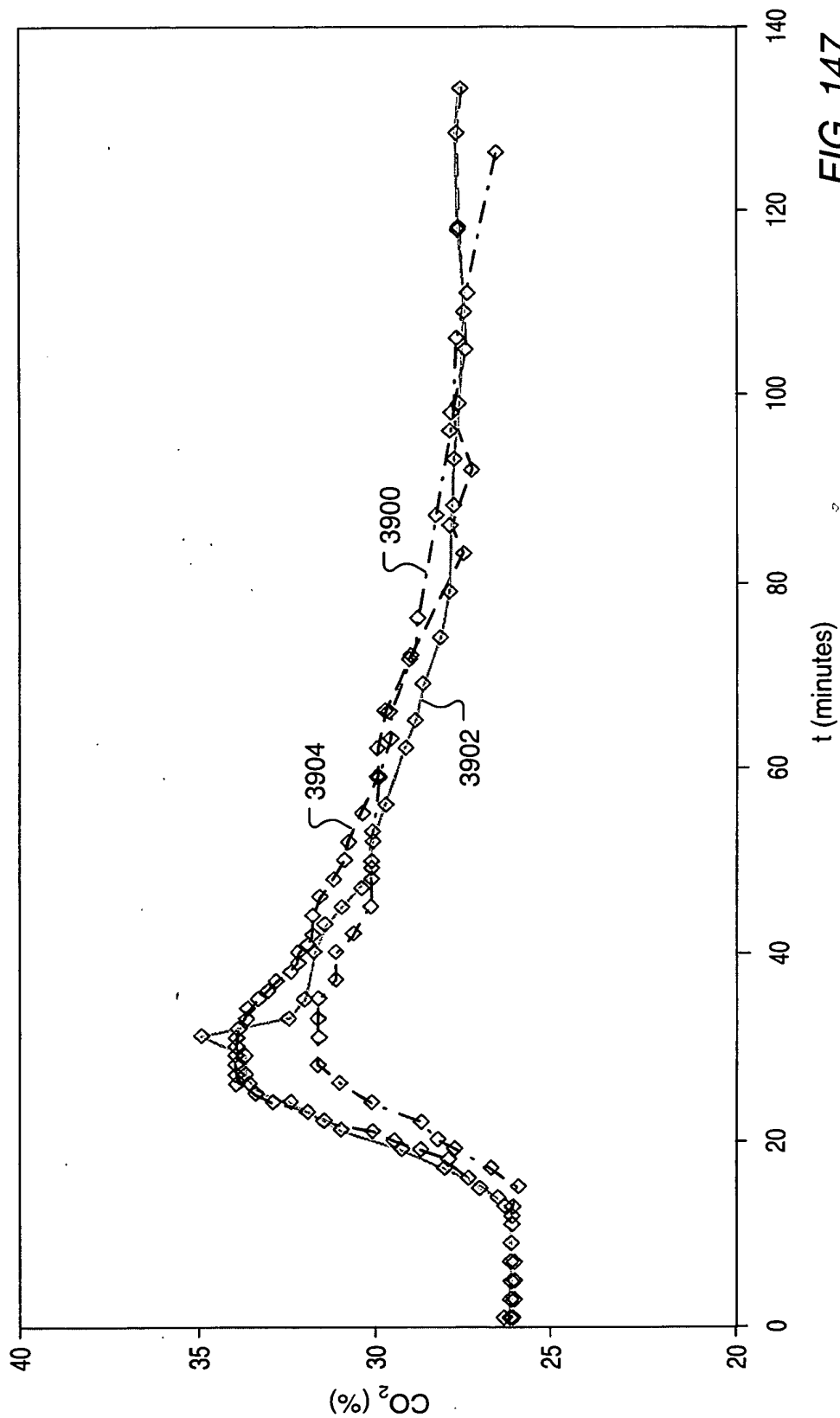


FIG. 147

15900 13600 11300 9070 6800 4540 2270 0

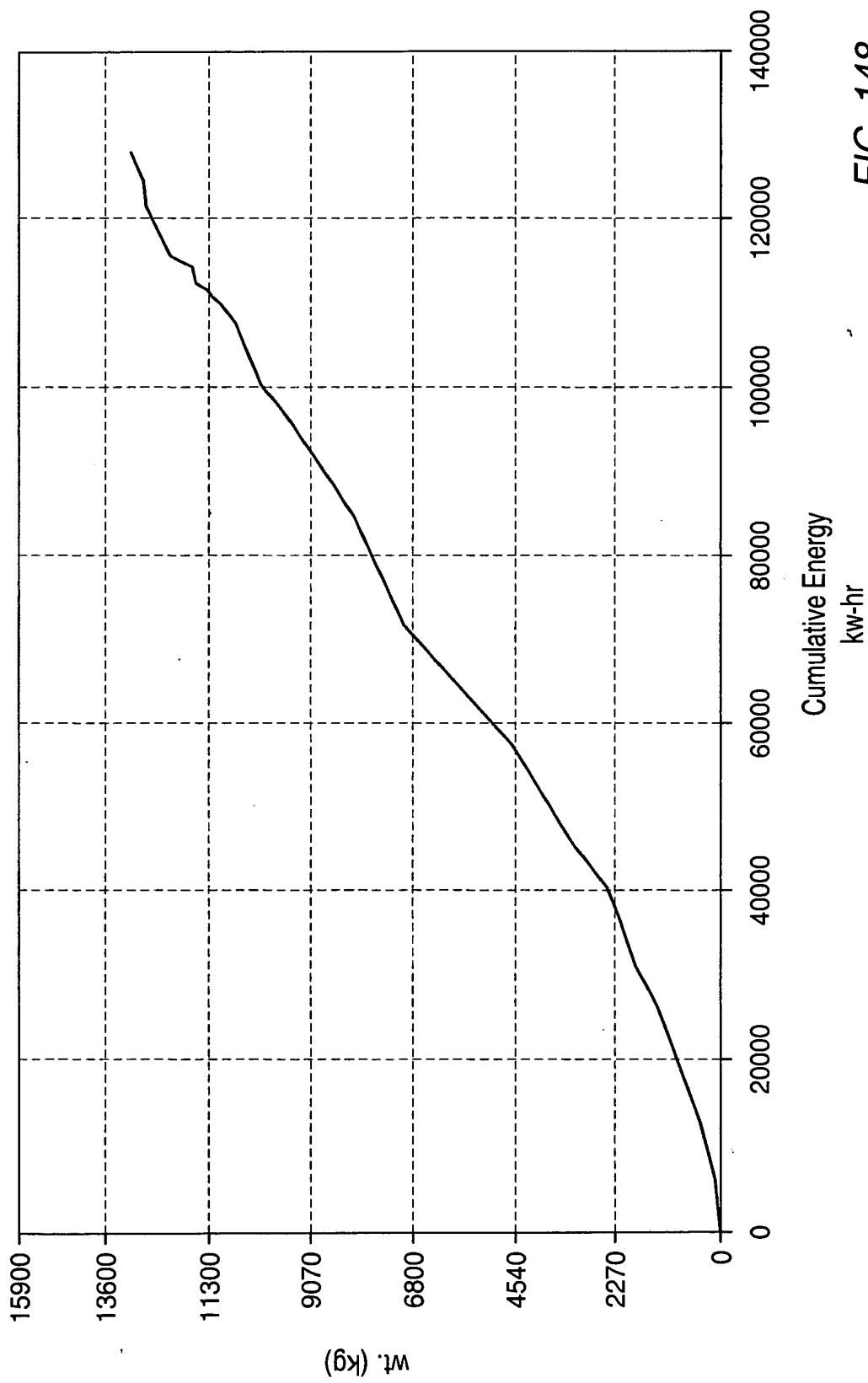


FIG. 148

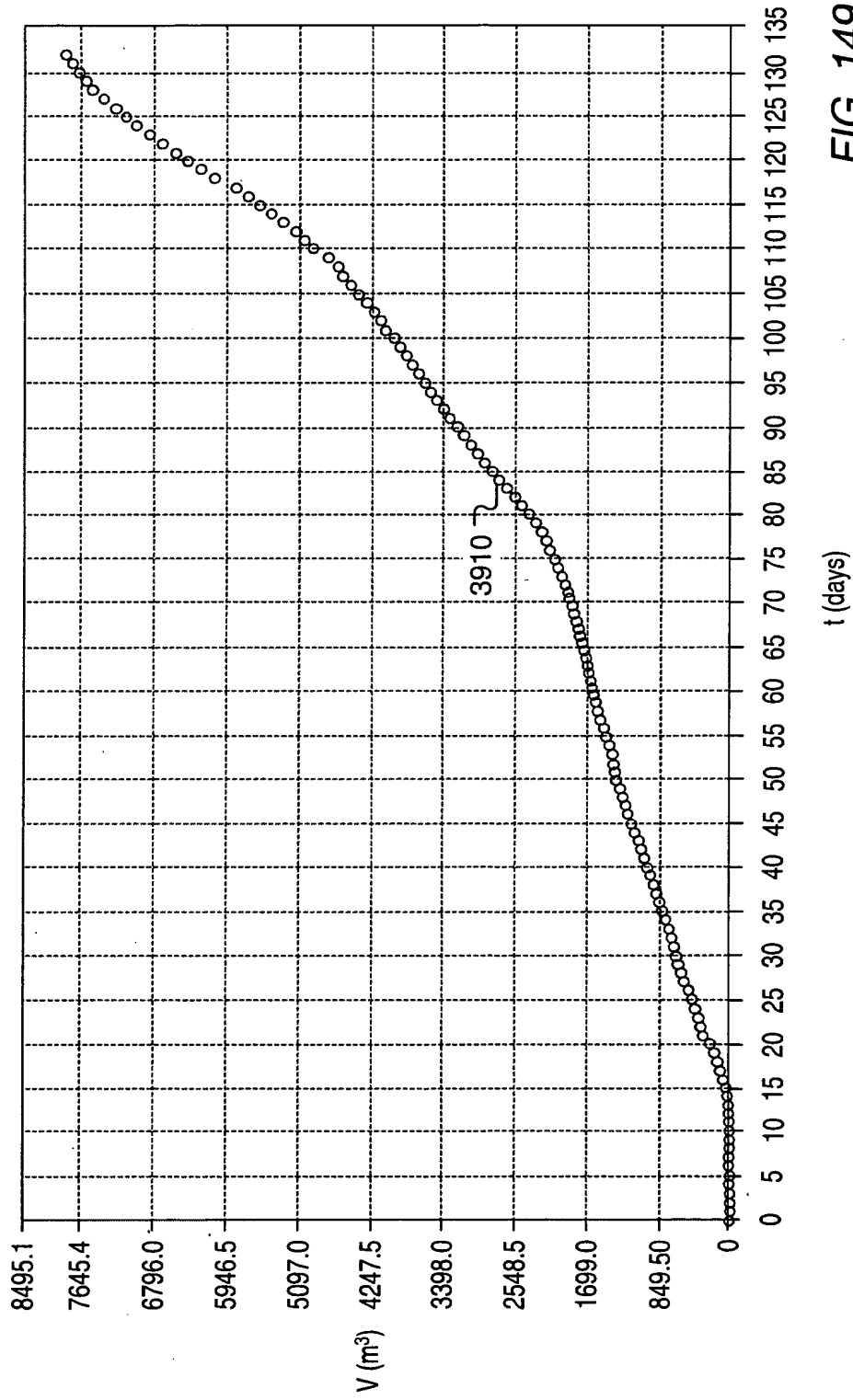


FIG. 149

FIG. 150

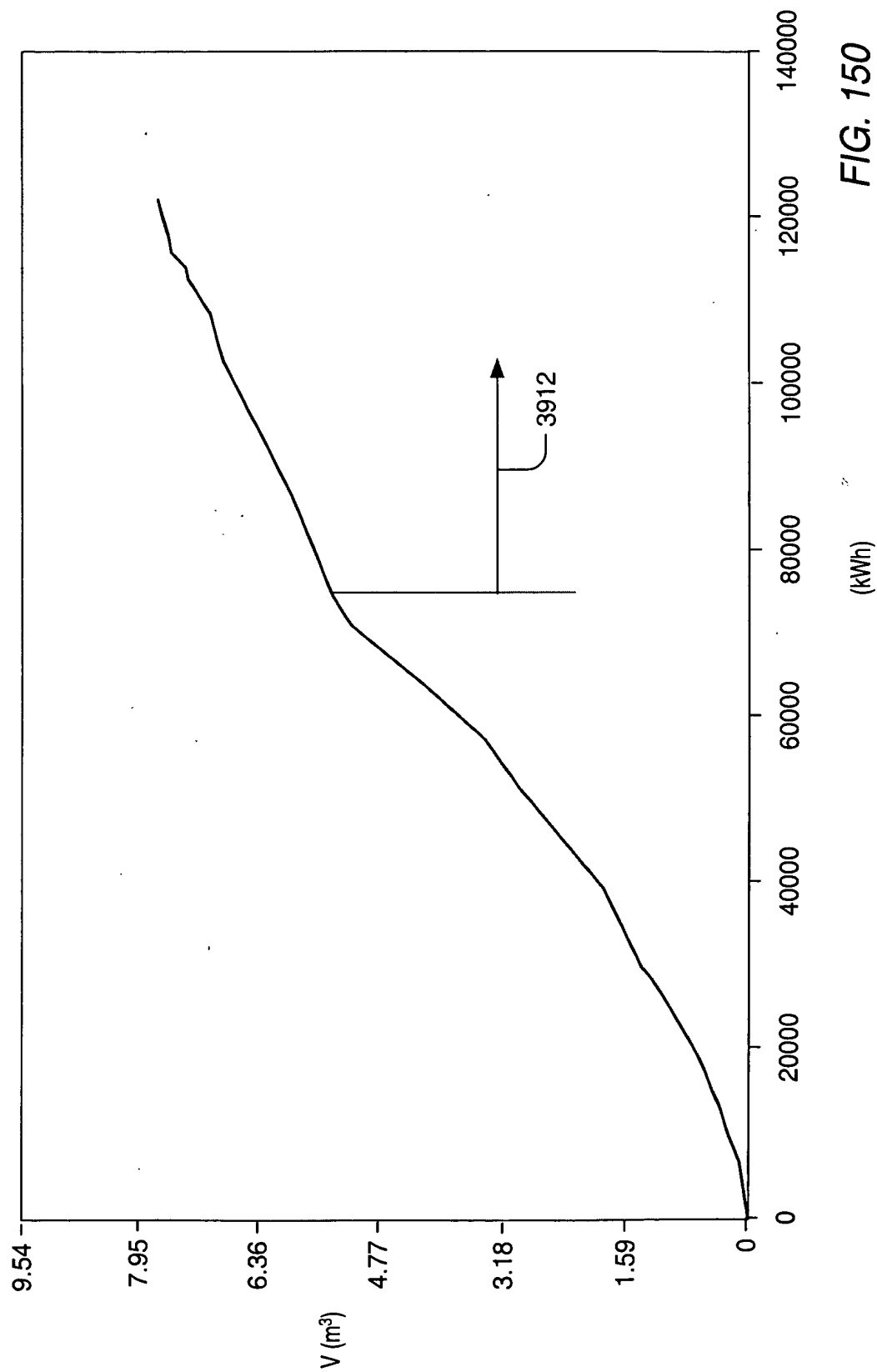


FIG. 150

FIG. 151

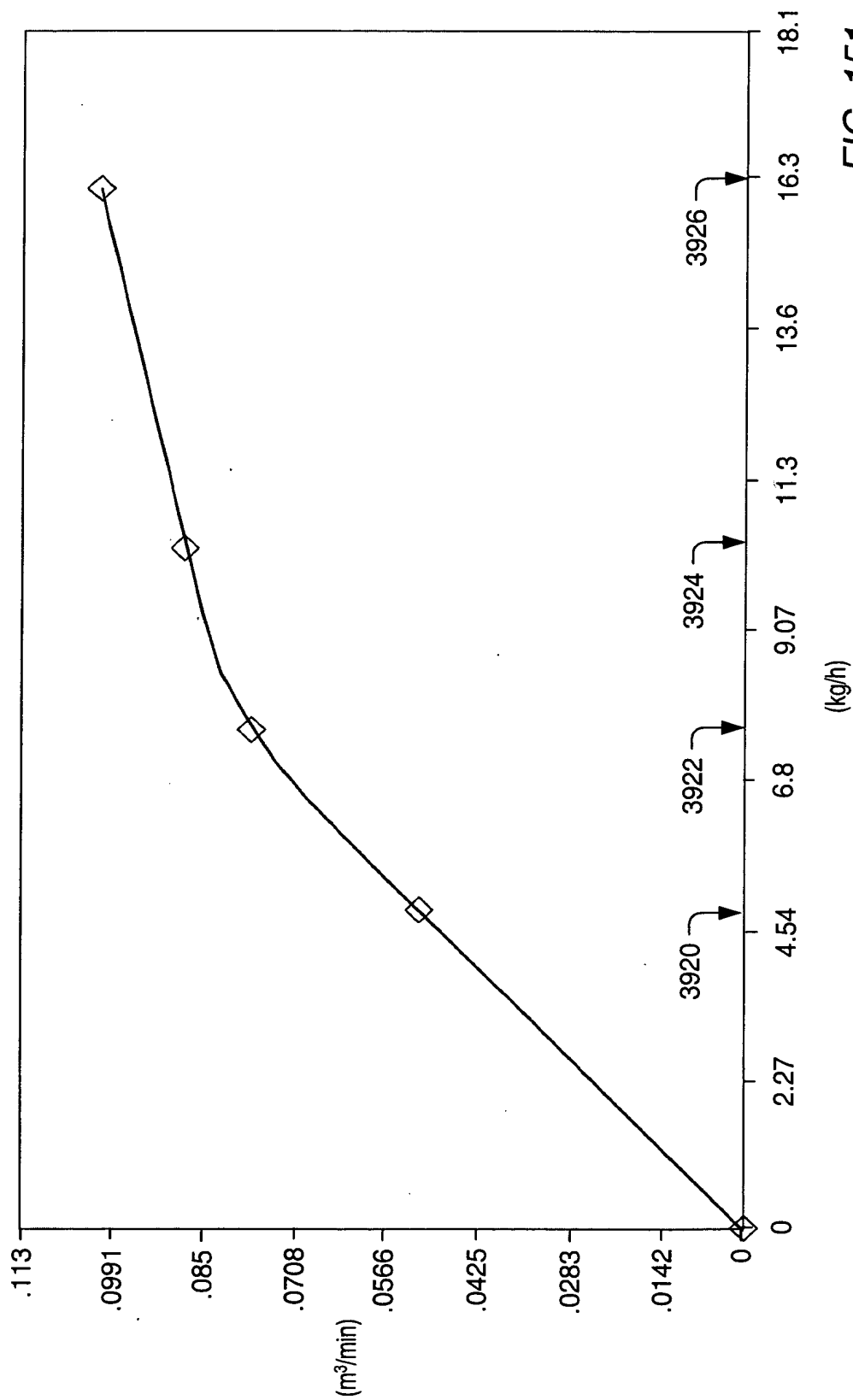


FIG. 151

1. *Staph. aureus*, 2. *S. aureus*, 3. *S. aureus*, 4. *S. aureus*, 5. *S. aureus*, 6. *S. aureus*, 7. *S. aureus*, 8. *S. aureus*, 9. *S. aureus*, 10. *S. aureus*, 11. *S. aureus*, 12. *S. aureus*, 13. *S. aureus*, 14. *S. aureus*, 15. *S. aureus*, 16. *S. aureus*, 17. *S. aureus*, 18. *S. aureus*, 19. *S. aureus*, 20. *S. aureus*, 21. *S. aureus*, 22. *S. aureus*, 23. *S. aureus*, 24. *S. aureus*, 25. *S. aureus*, 26. *S. aureus*, 27. *S. aureus*, 28. *S. aureus*, 29. *S. aureus*, 30. *S. aureus*, 31. *S. aureus*, 32. *S. aureus*, 33. *S. aureus*, 34. *S. aureus*, 35. *S. aureus*, 36. *S. aureus*, 37. *S. aureus*, 38. *S. aureus*, 39. *S. aureus*, 40. *S. aureus*, 41. *S. aureus*, 42. *S. aureus*, 43. *S. aureus*, 44. *S. aureus*, 45. *S. aureus*, 46. *S. aureus*, 47. *S. aureus*, 48. *S. aureus*, 49. *S. aureus*, 50. *S. aureus*, 51. *S. aureus*, 52. *S. aureus*, 53. *S. aureus*, 54. *S. aureus*, 55. *S. aureus*, 56. *S. aureus*, 57. *S. aureus*, 58. *S. aureus*, 59. *S. aureus*, 60. *S. aureus*, 61. *S. aureus*, 62. *S. aureus*, 63. *S. aureus*, 64. *S. aureus*, 65. *S. aureus*, 66. *S. aureus*, 67. *S. aureus*, 68. *S. aureus*, 69. *S. aureus*, 70. *S. aureus*, 71. *S. aureus*, 72. *S. aureus*, 73. *S. aureus*, 74. *S. aureus*, 75. *S. aureus*, 76. *S. aureus*, 77. *S. aureus*, 78. *S. aureus*, 79. *S. aureus*, 80. *S. aureus*, 81. *S. aureus*, 82. *S. aureus*, 83. *S. aureus*, 84. *S. aureus*, 85. *S. aureus*, 86. *S. aureus*, 87. *S. aureus*, 88. *S. aureus*, 89. *S. aureus*, 90. *S. aureus*, 91. *S. aureus*, 92. *S. aureus*, 93. *S. aureus*, 94. *S. aureus*, 95. *S. aureus*, 96. *S. aureus*, 97. *S. aureus*, 98. *S. aureus*, 99. *S. aureus*, 100. *S. aureus*.

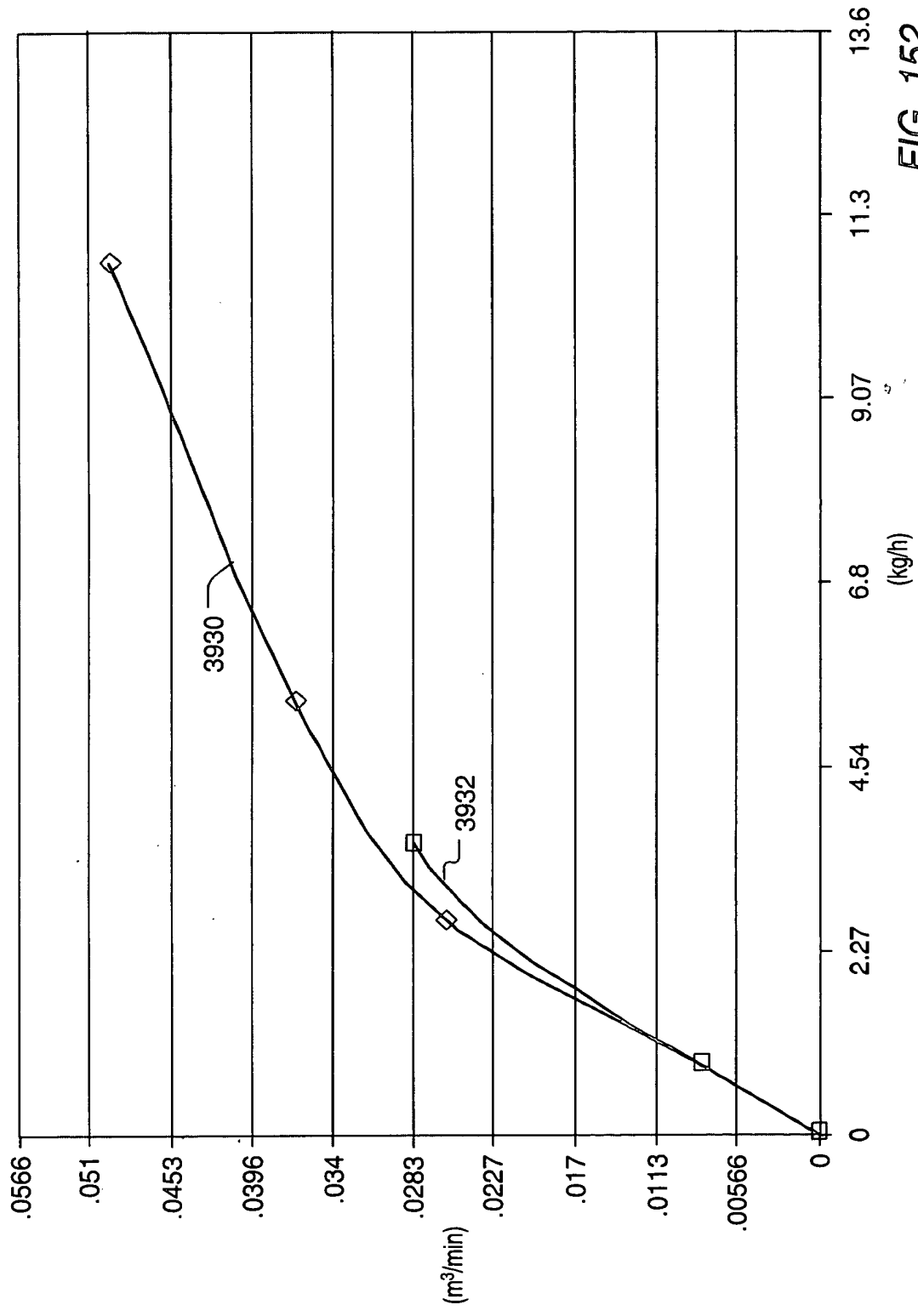


FIG. 152

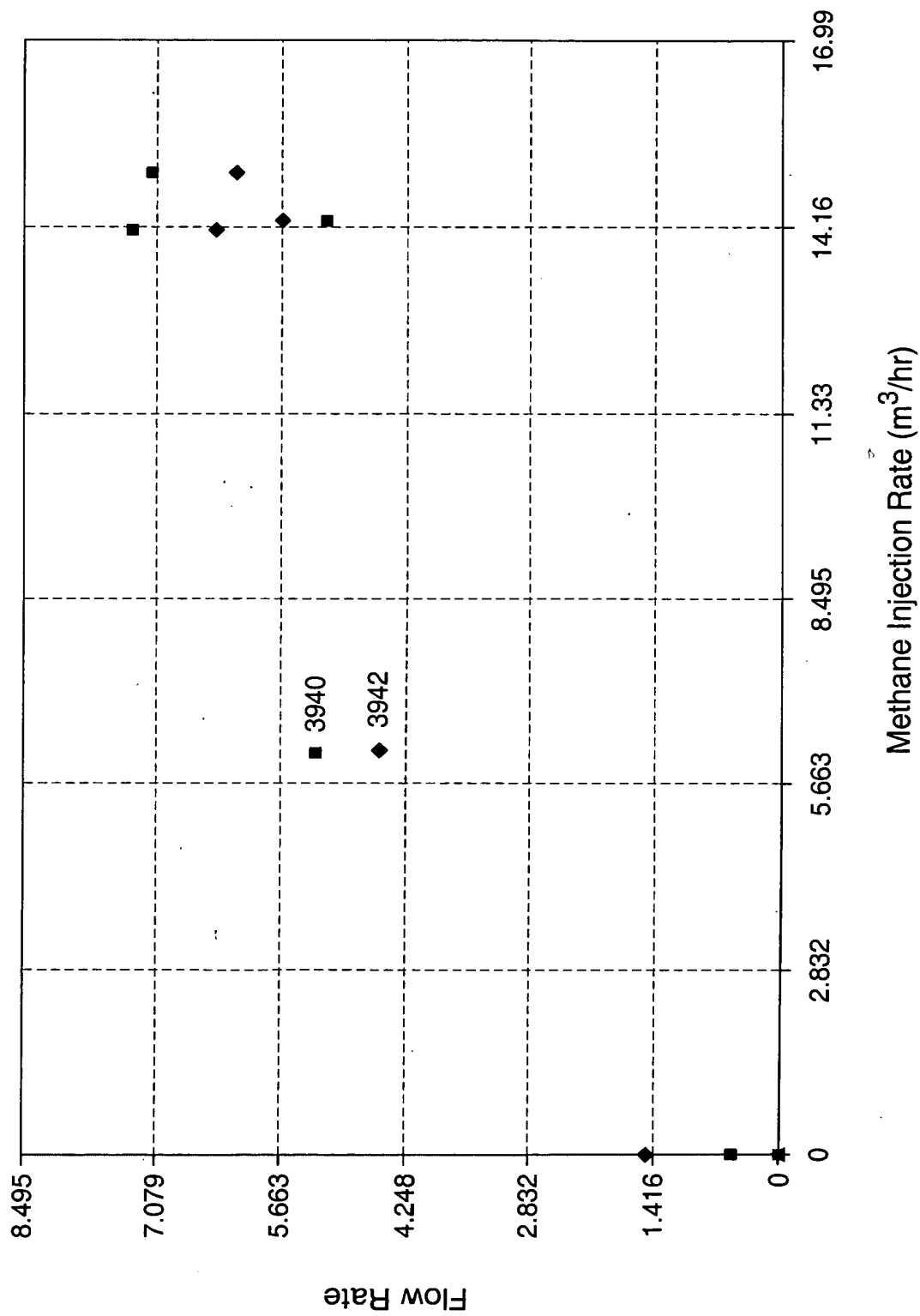


FIG. 153

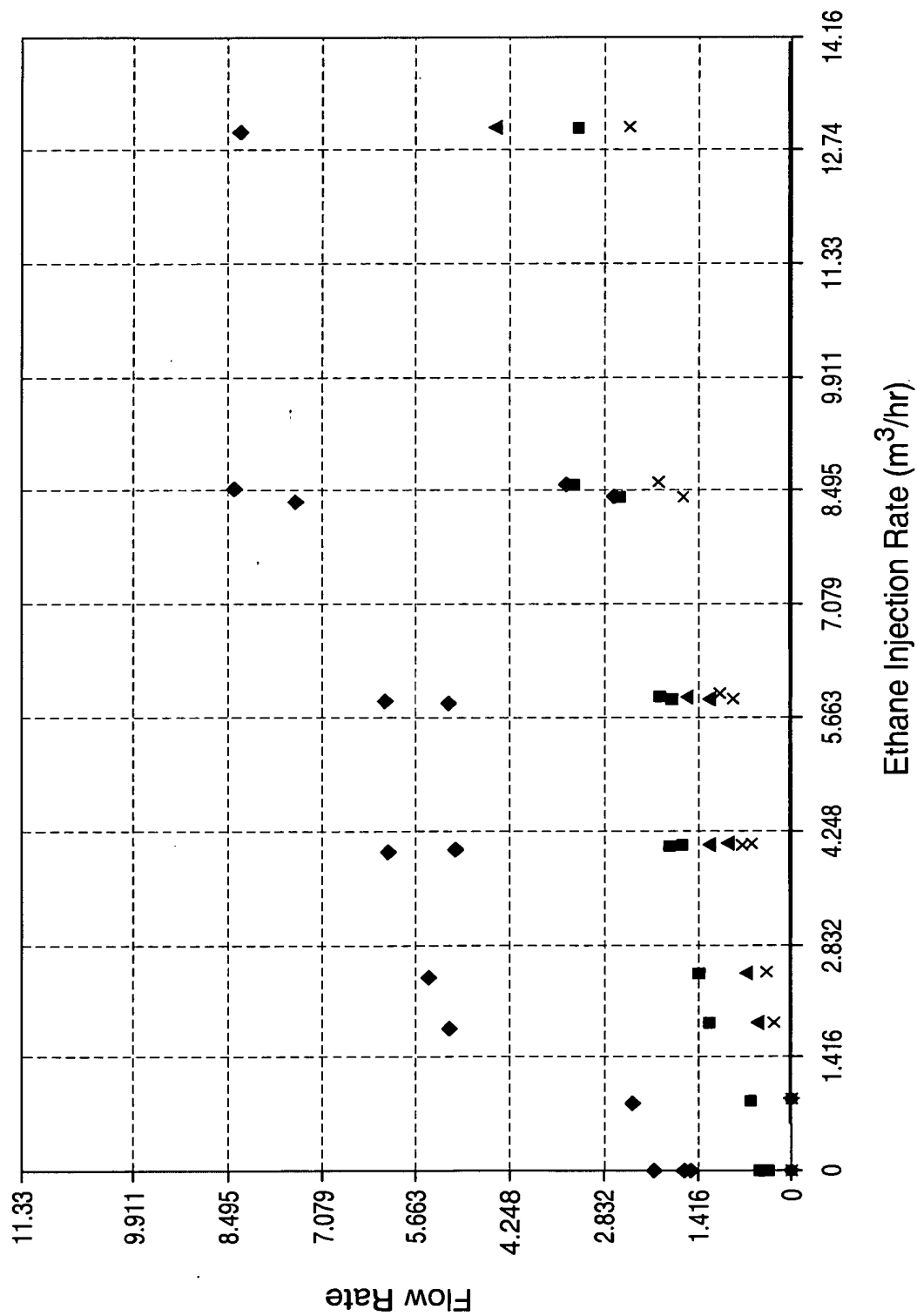
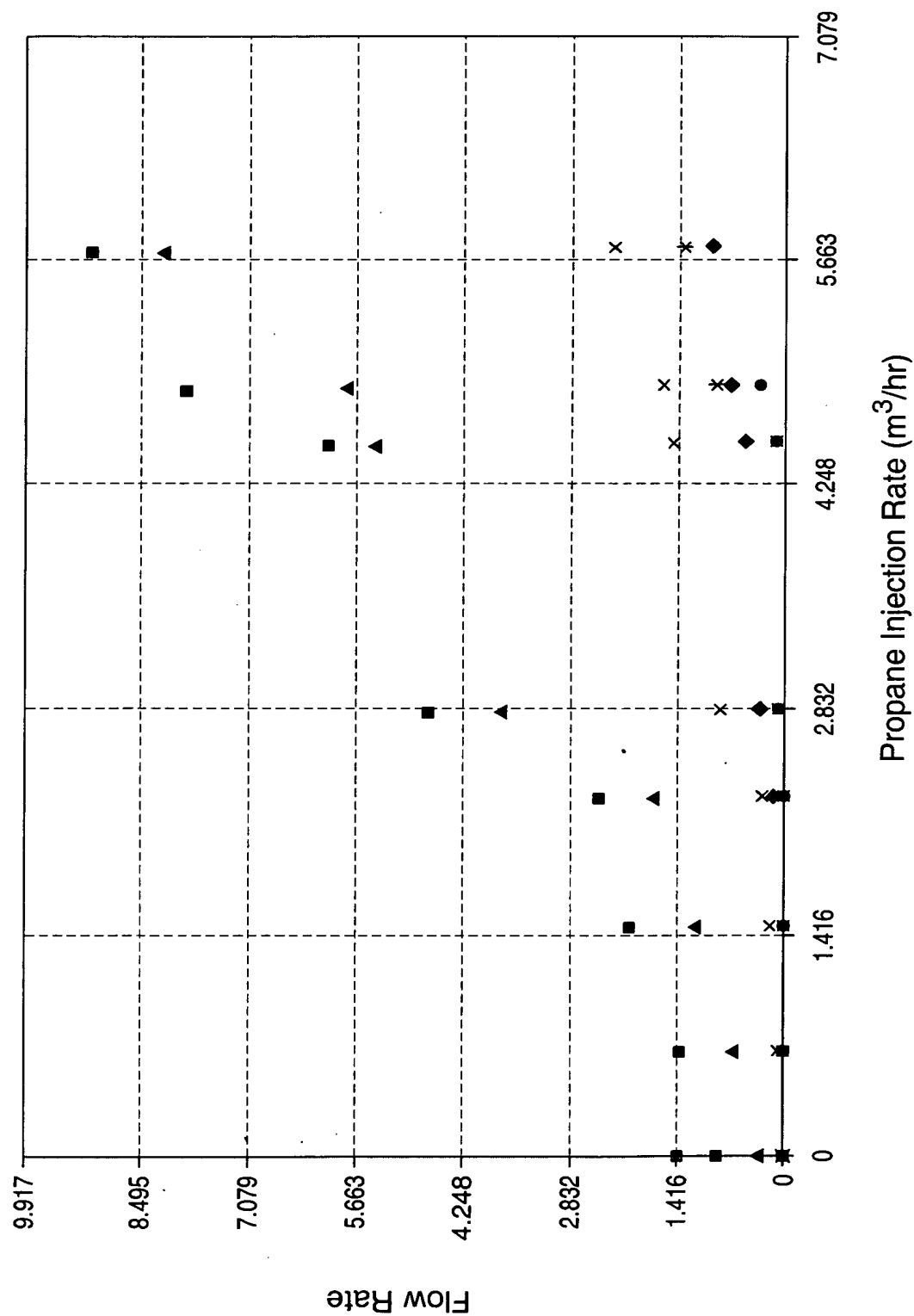


FIG. 154

Flow Rate vs. Propane Injection Rate



■ 3960 ▲ 3962 ◆ 3964 × 3966 ● 3969

FIG. 155

11717, 11718, 11719, 11720, 11721, 11722, 11723, 11724, 11725, 11726, 11727, 11728, 11729, 11730, 11731, 11732, 11733, 11734, 11735, 11736, 11737, 11738, 11739, 11740, 11741, 11742, 11743, 11744, 11745, 11746, 11747, 11748, 11749, 11750, 11751, 11752, 11753, 11754, 11755, 11756, 11757, 11758, 11759, 11760, 11761, 11762, 11763, 11764, 11765, 11766, 11767, 11768, 11769, 11770, 11771, 11772, 11773, 11774, 11775, 11776, 11777, 11778, 11779, 11780, 11781, 11782, 11783, 11784, 11785, 11786, 11787, 11788, 11789, 11790, 11791, 11792, 11793, 11794, 11795, 11796, 11797, 11798, 11799, 11800, 11801, 11802, 11803, 11804, 11805, 11806, 11807, 11808, 11809, 11810, 11811, 11812, 11813, 11814, 11815, 11816, 11817, 11818, 11819, 11820, 11821, 11822, 11823, 11824, 11825, 11826, 11827, 11828, 11829, 11830, 11831, 11832, 11833, 11834, 11835, 11836, 11837, 11838, 11839, 11840, 11841, 11842, 11843, 11844, 11845, 11846, 11847, 11848, 11849, 11850, 11851, 11852, 11853, 11854, 11855, 11856, 11857, 11858, 11859, 11860, 11861, 11862, 11863, 11864, 11865, 11866, 11867, 11868, 11869, 11870, 11871, 11872, 11873, 11874, 11875, 11876, 11877, 11878, 11879, 11880, 11881, 11882, 11883, 11884, 11885, 11886, 11887, 11888, 11889, 11890, 11891, 11892, 11893, 11894, 11895, 11896, 11897, 11898, 11899, 11900, 11901, 11902, 11903, 11904, 11905, 11906, 11907, 11908, 11909, 11910, 11911, 11912, 11913, 11914, 11915, 11916, 11917, 11918, 11919, 11920, 11921, 11922, 11923, 11924, 11925, 11926, 11927, 11928, 11929, 11930, 11931, 11932, 11933, 11934, 11935, 11936, 11937, 11938, 11939, 11940, 11941, 11942, 11943, 11944, 11945, 11946, 11947, 11948, 11949, 11950, 11951, 11952, 11953, 11954, 11955, 11956, 11957, 11958, 11959, 11960, 11961, 11962, 11963, 11964, 11965, 11966, 11967, 11968, 11969, 11970, 11971, 11972, 11973, 11974, 11975, 11976, 11977, 11978, 11979, 11980, 11981, 11982, 11983, 11984, 11985, 11986, 11987, 11988, 11989, 11990, 11991, 11992, 11993, 11994, 11995, 11996, 11997, 11998, 11999, 12000, 12001, 12002, 12003, 12004, 12005, 12006, 12007, 12008, 12009, 12010, 12011, 12012, 12013, 12014, 12015, 12016, 12017, 12018, 12019, 12020, 12021, 12022, 12023, 12024, 12025, 12026, 12027, 12028, 12029, 12030, 12031, 12032, 12033, 12034, 12035, 12036, 12037, 12038, 12039, 12040, 12041, 12042, 12043, 12044, 12045, 12046, 12047, 12048, 12049, 12050, 12051, 12052, 12053, 12054, 12055, 12056, 12057, 12058, 12059, 12060, 12061, 12062, 12063, 12064, 12065, 12066, 12067, 12068, 12069, 12070, 12071, 12072, 12073, 12074, 12075, 12076, 12077, 12078, 12079, 12080, 12081, 12082, 12083, 12084, 12085, 12086, 12087, 12088, 12089, 12090, 12091, 12092, 12093, 12094, 12095, 12096, 12097, 12098, 12099, 12100, 12101, 12102, 12103, 12104, 12105, 12106, 12107, 12108, 12109, 12110, 12111, 12112, 12113, 12114, 12115, 12116, 12117, 12118, 12119, 12120, 12121, 12122, 12123, 12124, 12125, 12126, 12127, 12128, 12129, 12130, 12131, 12132, 12133, 12134, 12135, 12136, 12137, 12138, 12139, 12140, 12141, 12142, 12143, 12144, 12145, 12146, 12147, 12148, 12149, 12150, 12151, 12152, 12153, 12154, 12155, 12156, 12157, 12158, 12159, 12160, 12161, 12162, 12163, 12164, 12165, 12166, 12167, 12168, 12169, 12170, 12171, 12172, 12173, 12174, 12175, 12176, 12177, 12178, 12179, 12180, 12181, 12182, 12183, 12184, 12185, 12186, 12187, 12188, 12189, 12190, 12191, 12192, 12193, 12194, 12195, 12196, 12197, 12198, 12199, 12200, 12201, 12202, 12203, 12204, 12205, 12206, 12207, 12208, 12209, 12210, 12211, 12212, 12213, 12214, 12215, 12216, 12217, 12218, 12219, 12220, 12221, 12222, 12223, 12224, 12225, 12226, 12227, 12228, 12229, 12230, 12231, 12232, 12233, 12234, 12235, 12236, 12237, 12238, 12239, 12240, 12241, 12242, 12243, 12244, 12245, 12246, 12247, 12248, 12249, 12250, 12251, 12252, 12253, 12254, 12255, 12256, 12257, 12258, 12259, 12260, 12261, 12262, 12263, 12264, 12265, 12266, 12267, 12268, 12269, 12270, 12271, 12272, 12273, 12274, 12275, 12276, 12277, 12278, 12279, 12280, 12281, 12282, 12283, 12284, 12285, 12286, 12287, 12288, 12289, 12290, 12291, 12292, 12293, 12294, 12295, 12296, 12297, 12298, 12299, 12300, 123

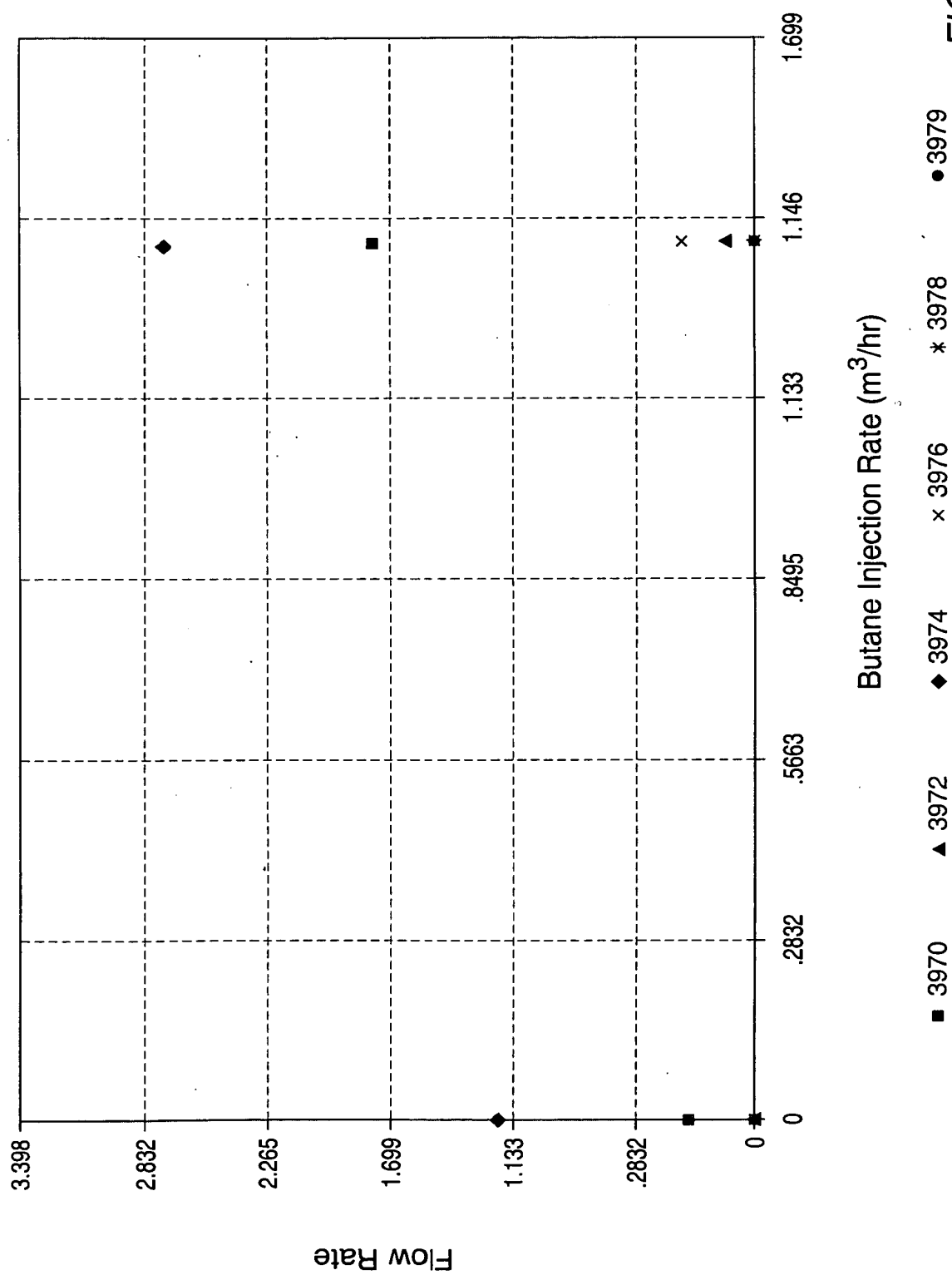


FIG. 156

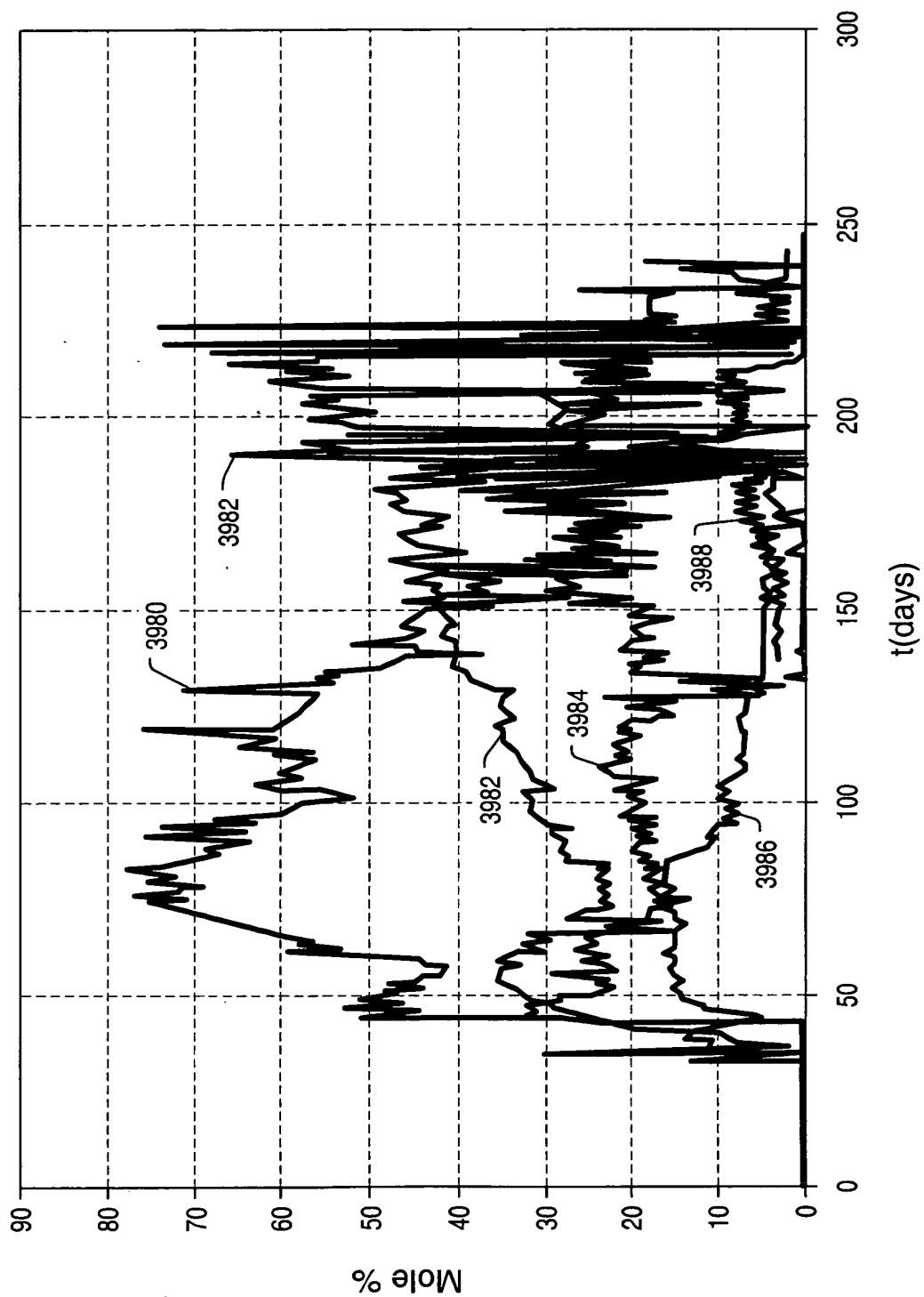


FIG. 157

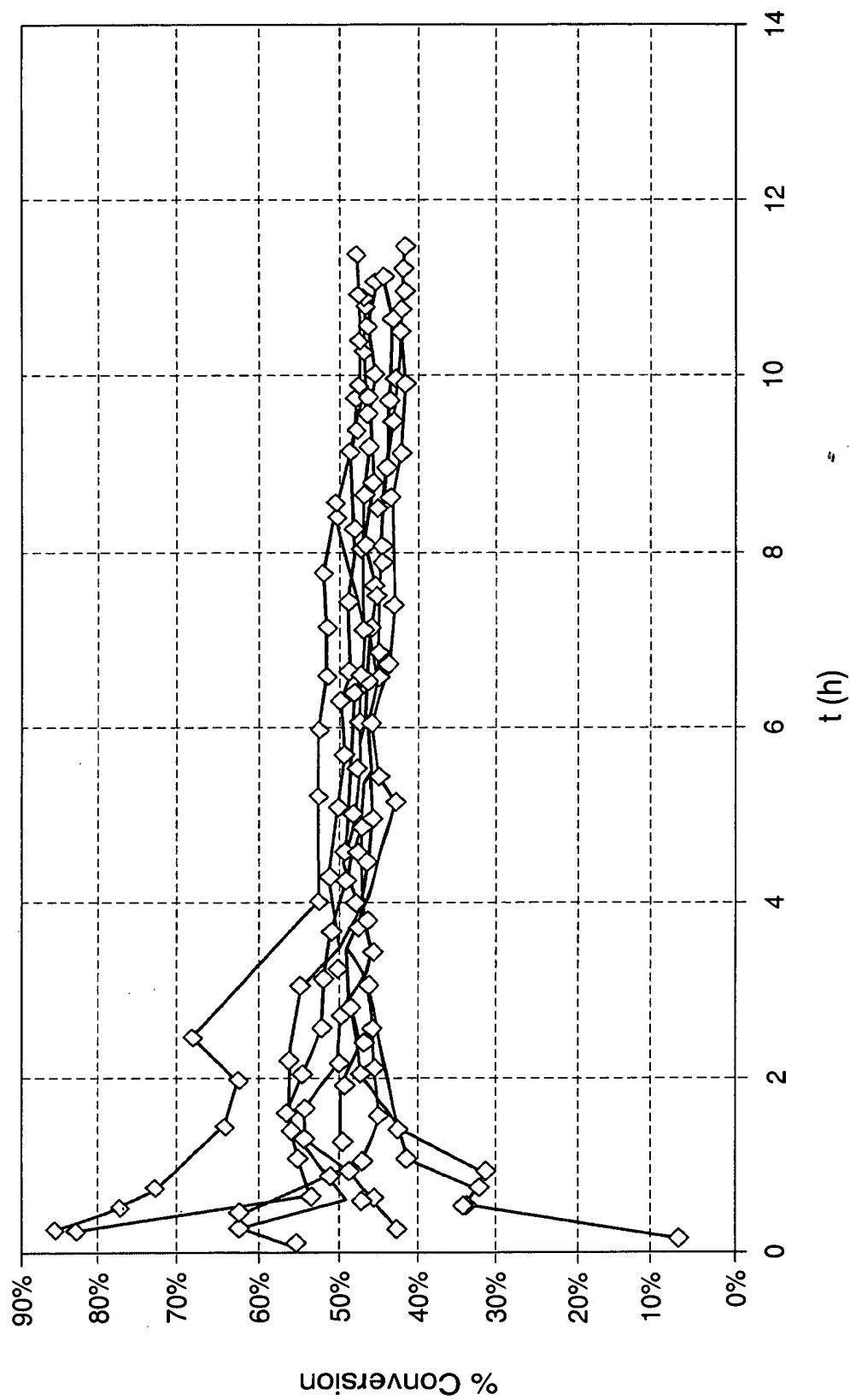


FIG. 158

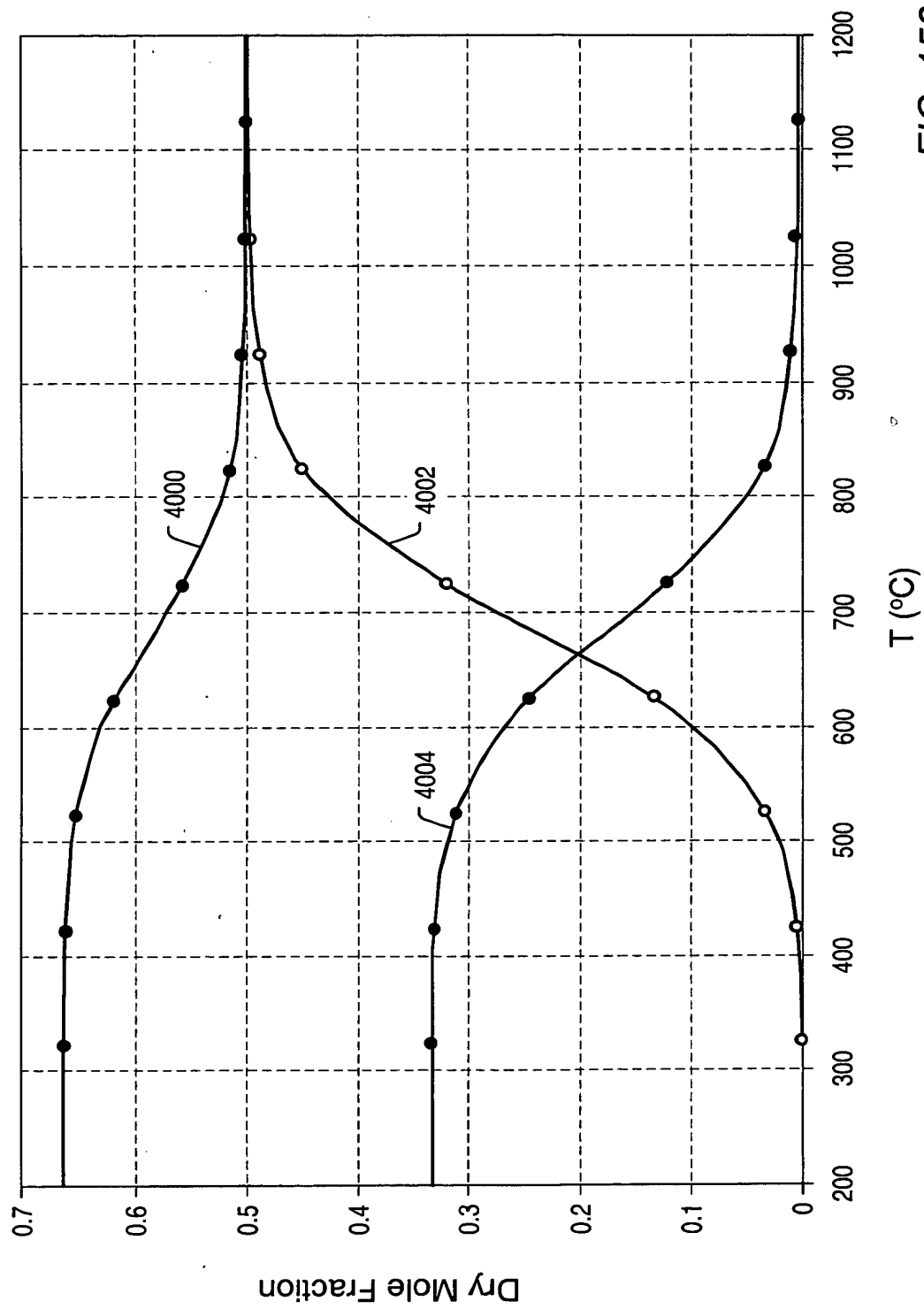


FIG. 159

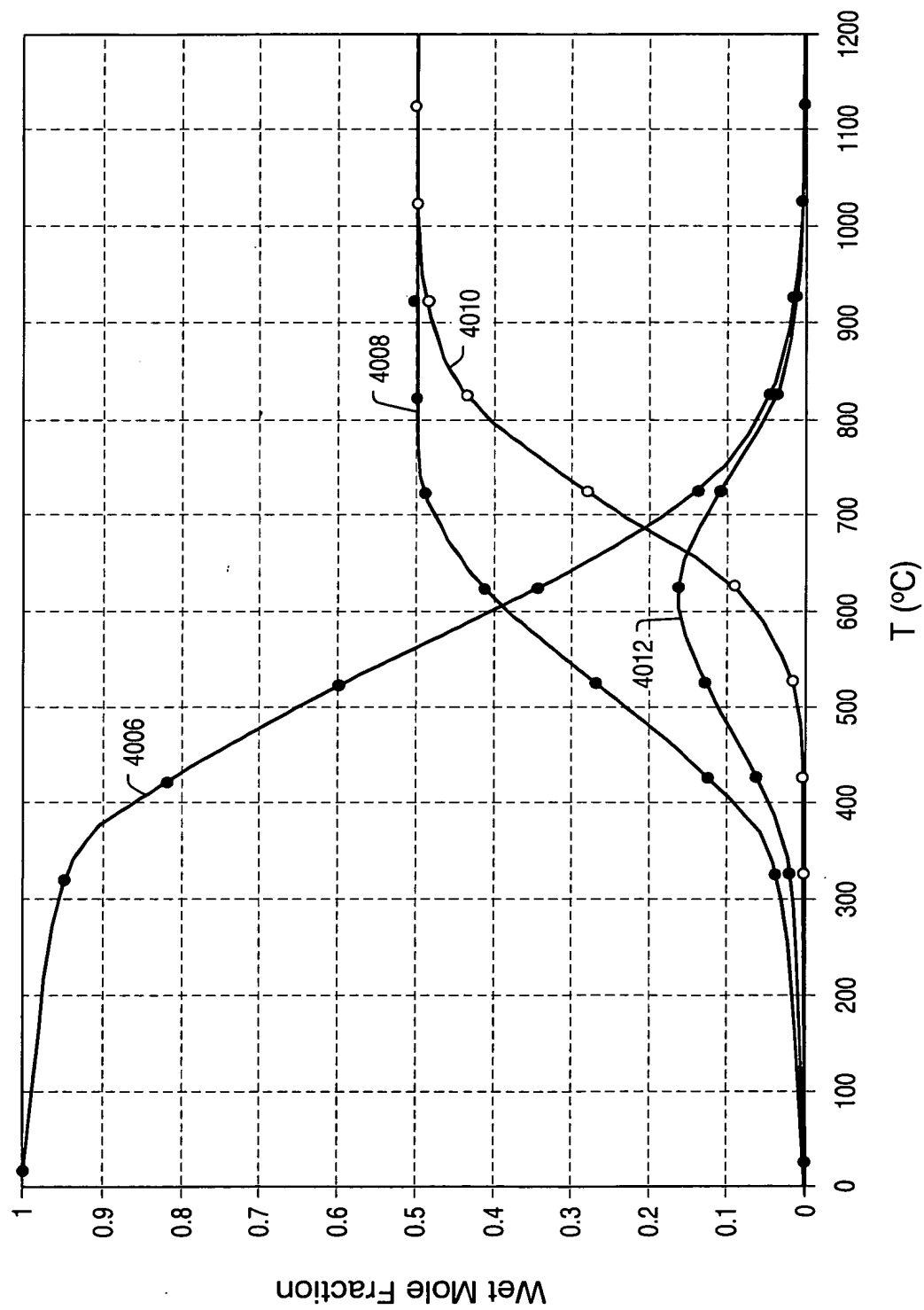


FIG. 160

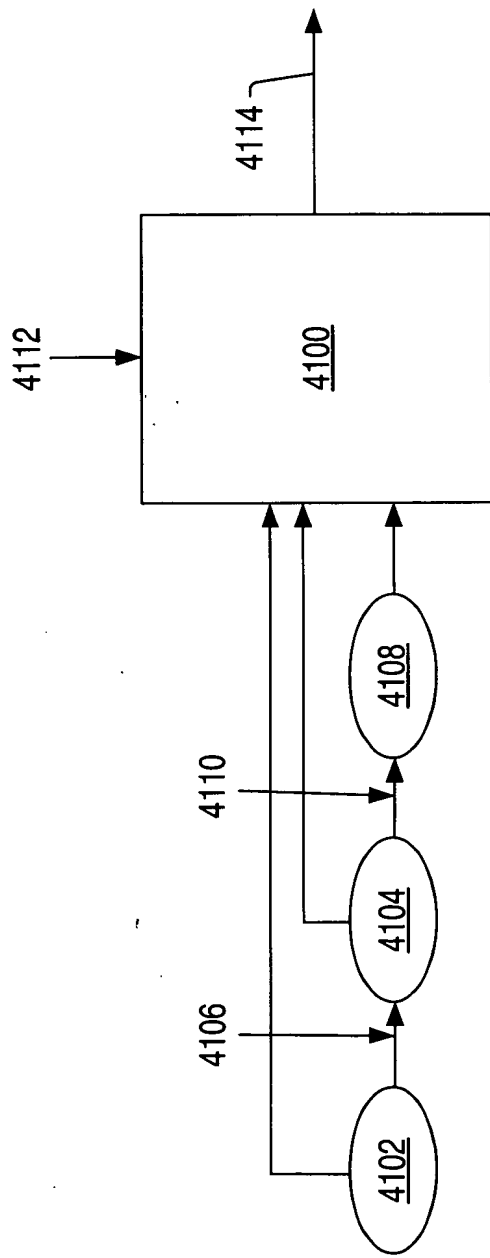


FIG. 162

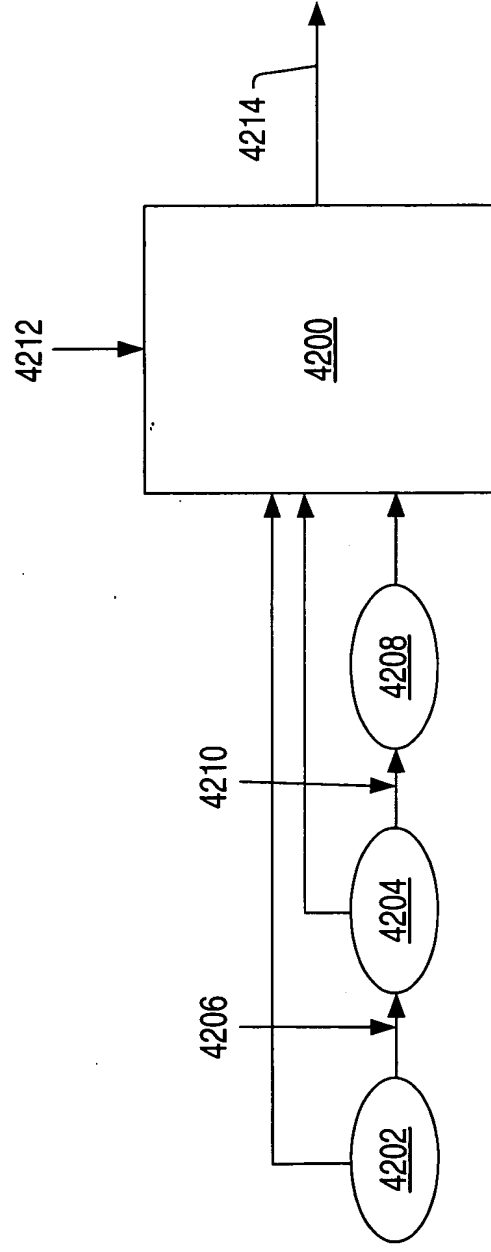


FIG. 163

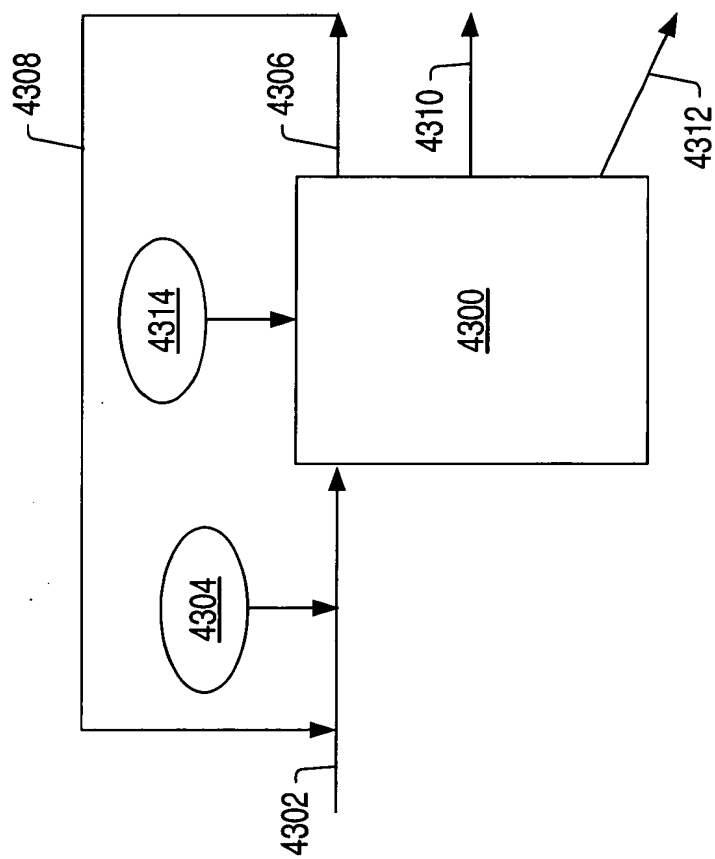


FIG. 164

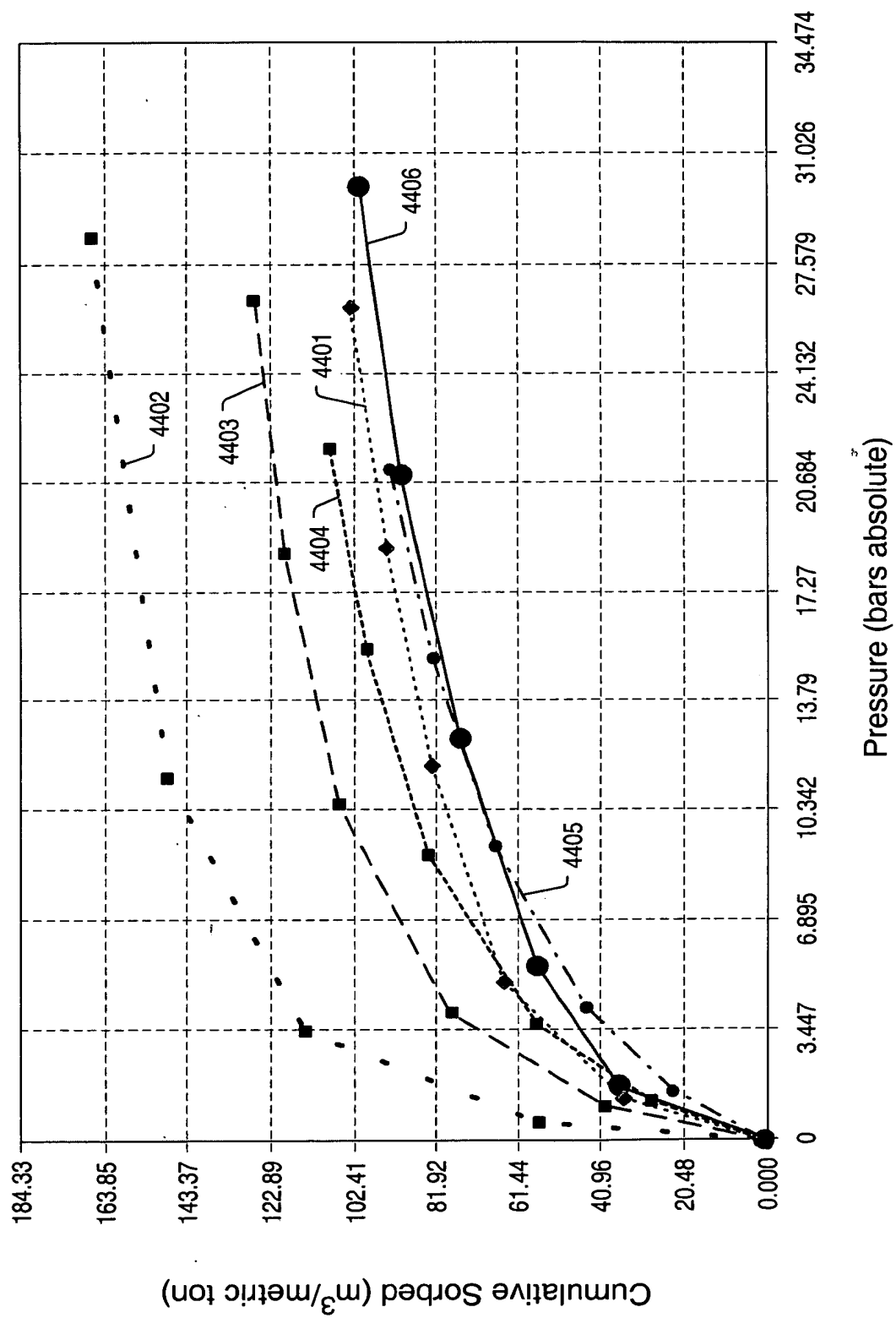


FIG. 165

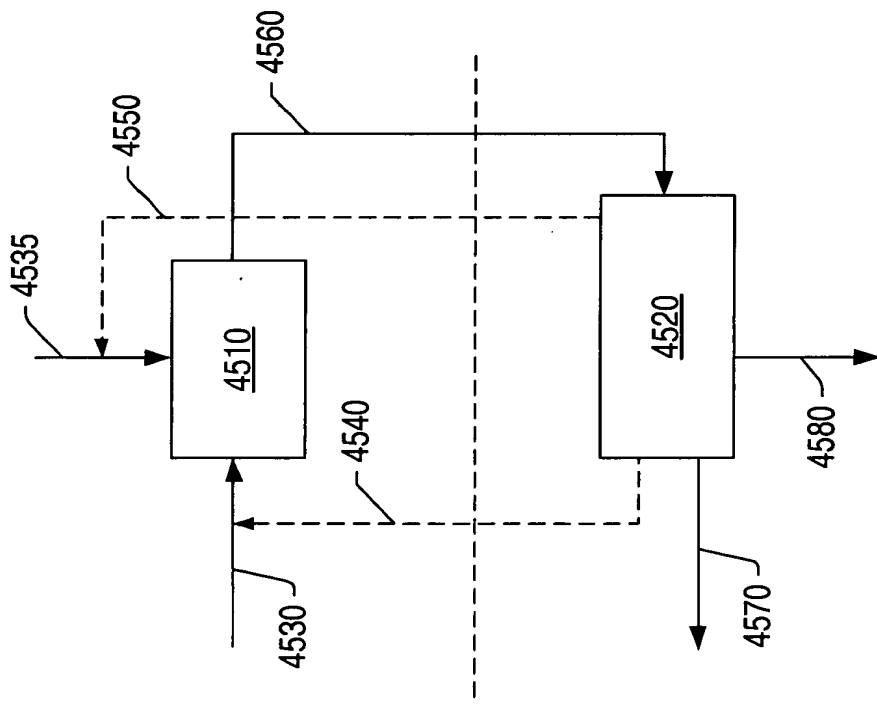


FIG. 166

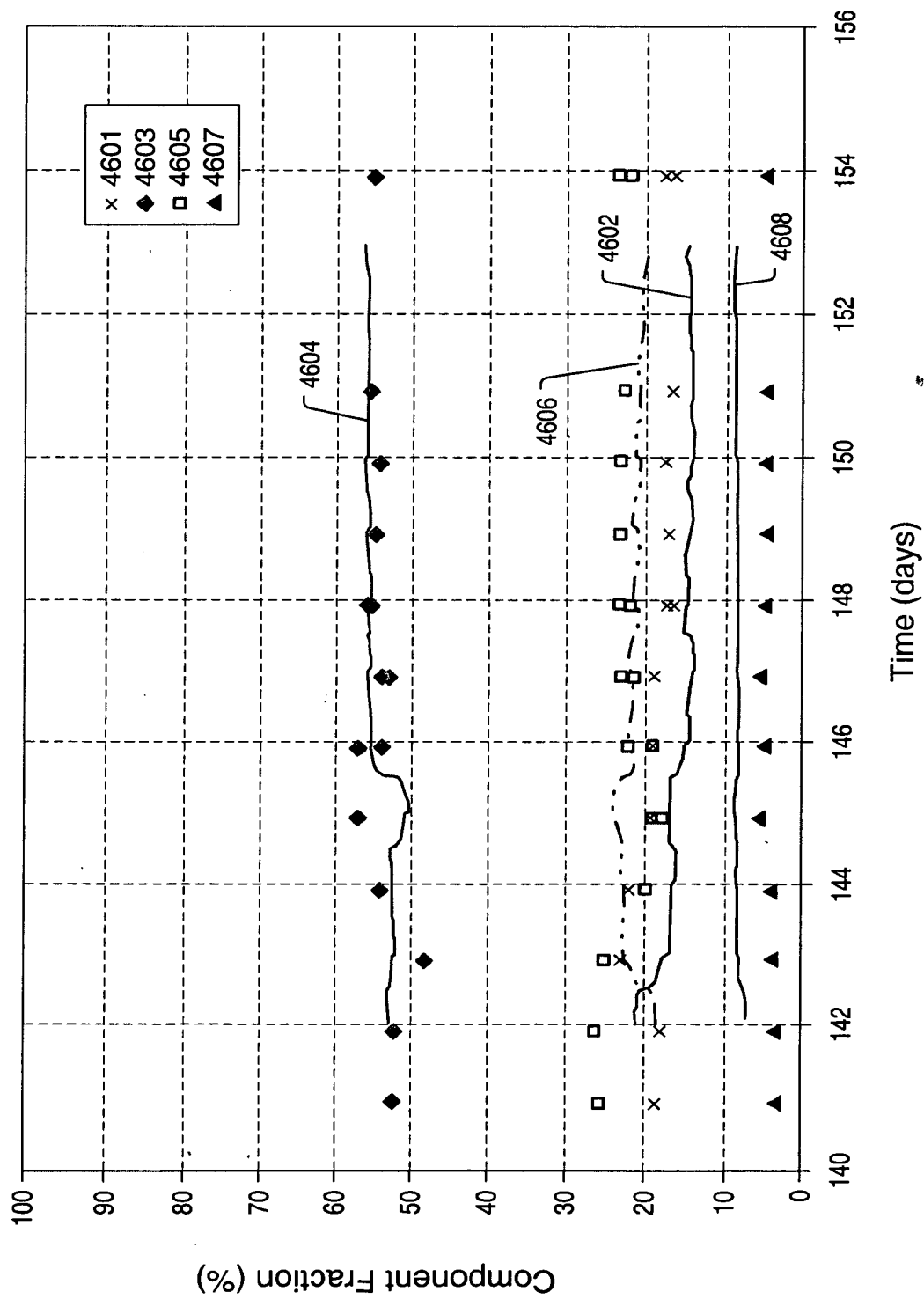


FIG. 167

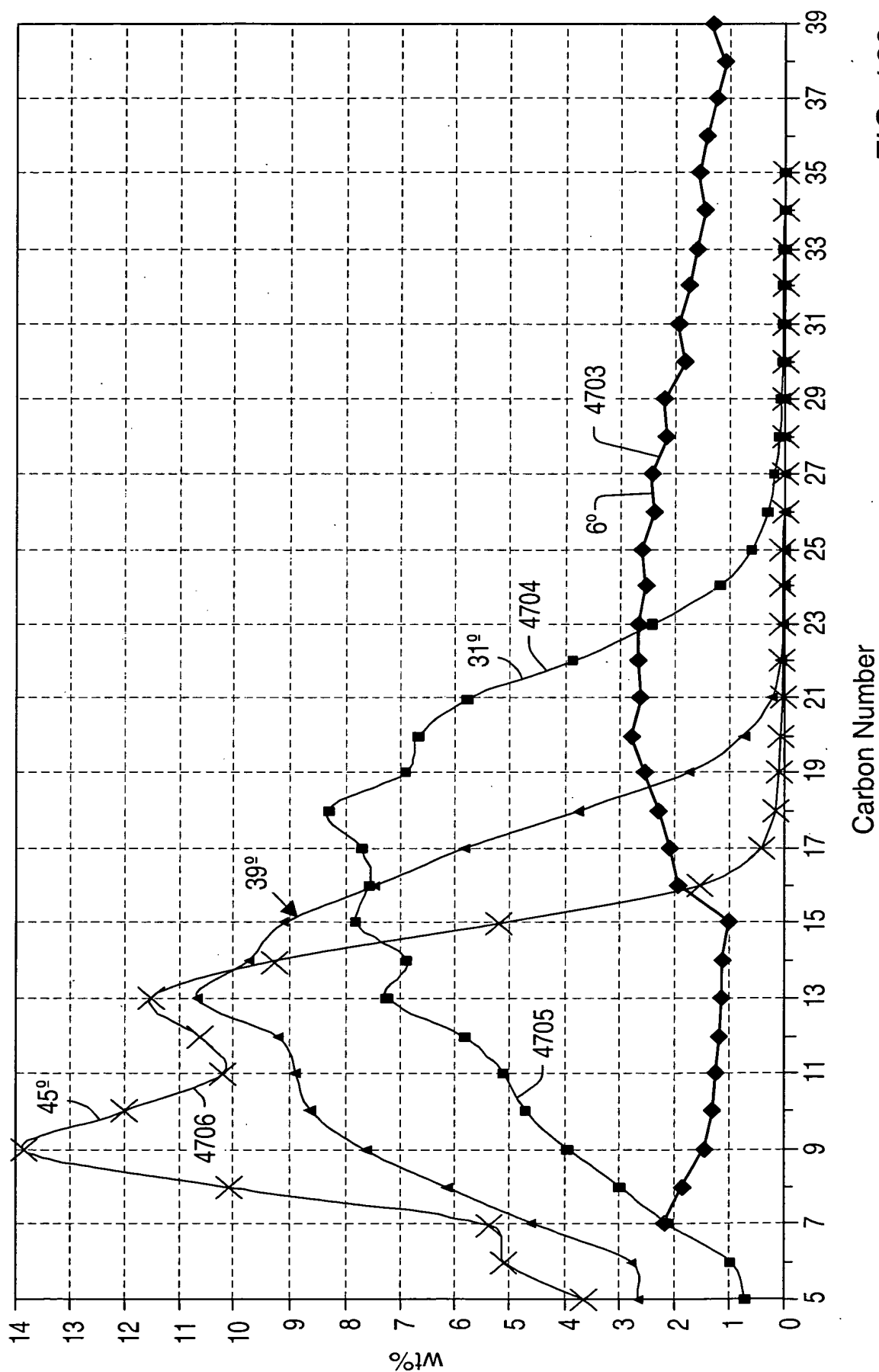


FIG. 168

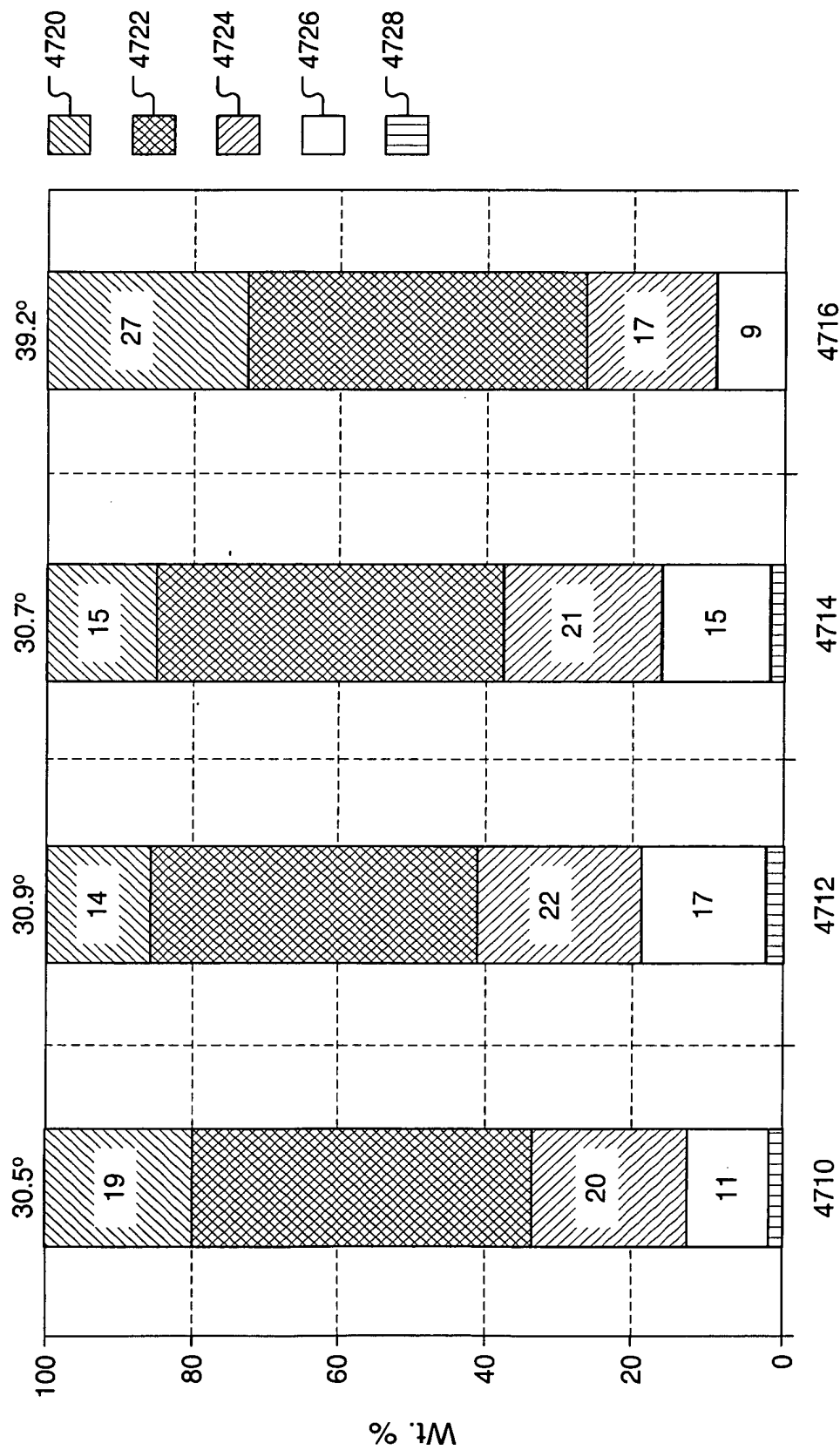


FIG. 169

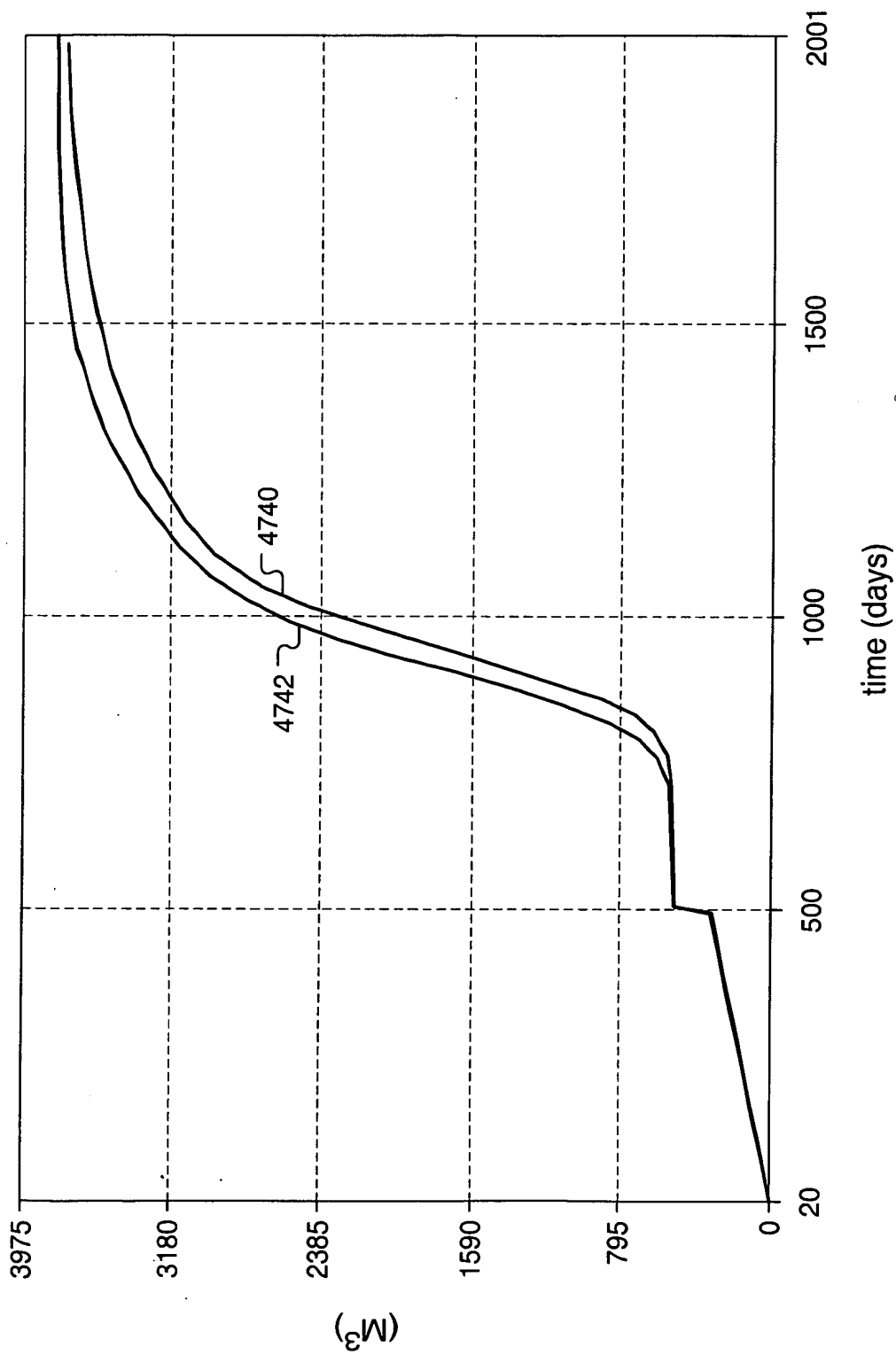


FIG. 170

FIG. 170 = 2004.03.00

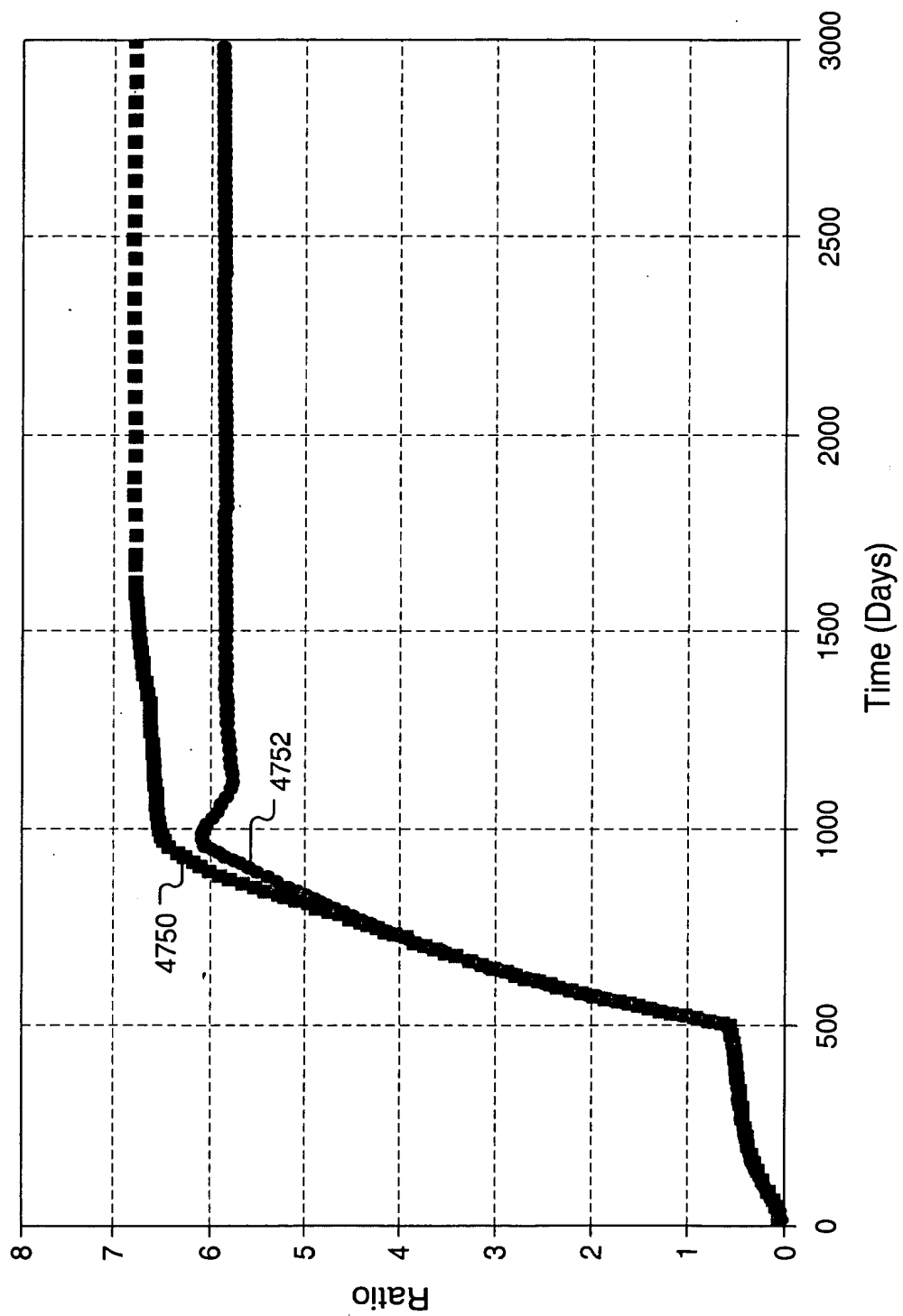


FIG. 171

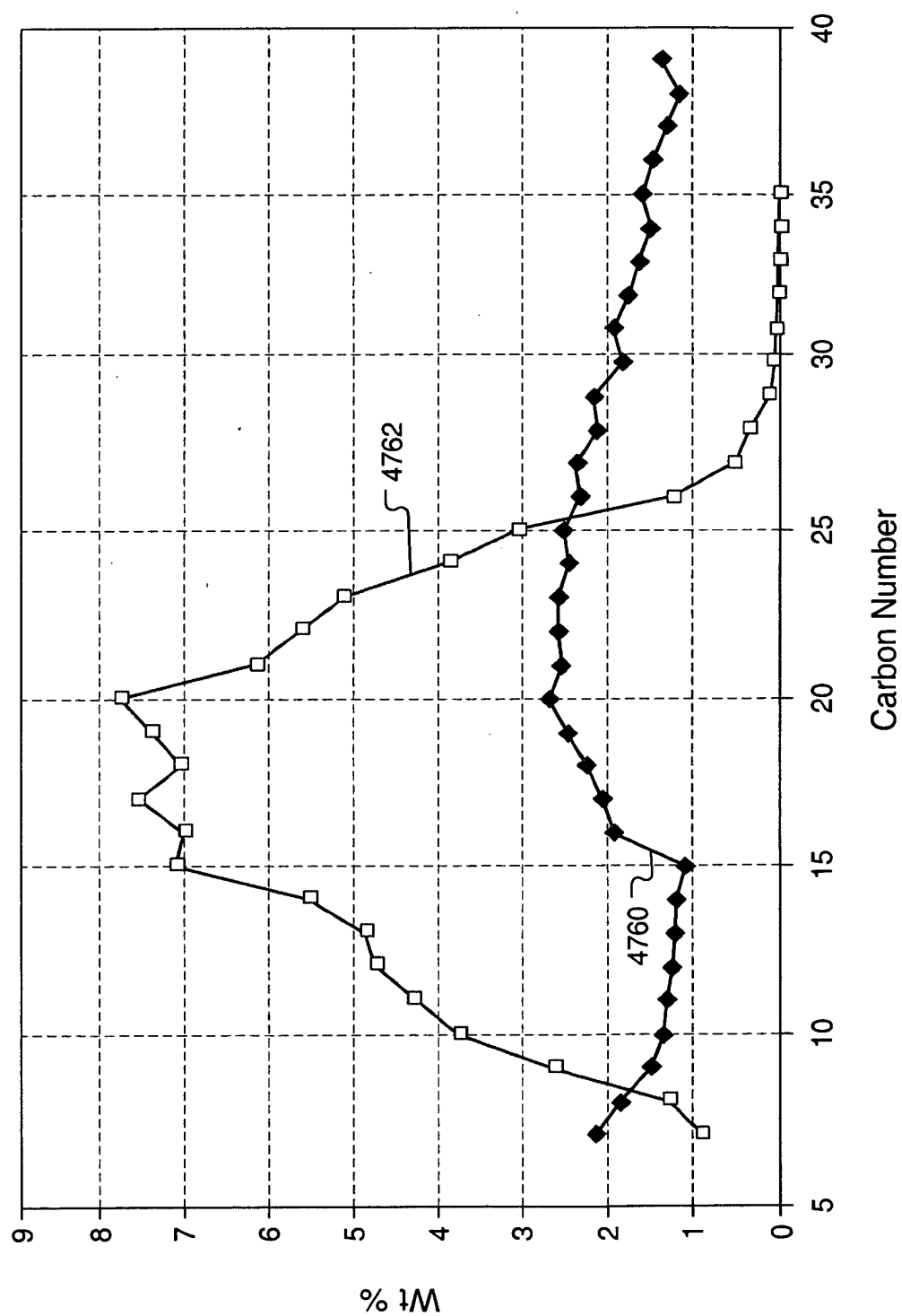


FIG. 172

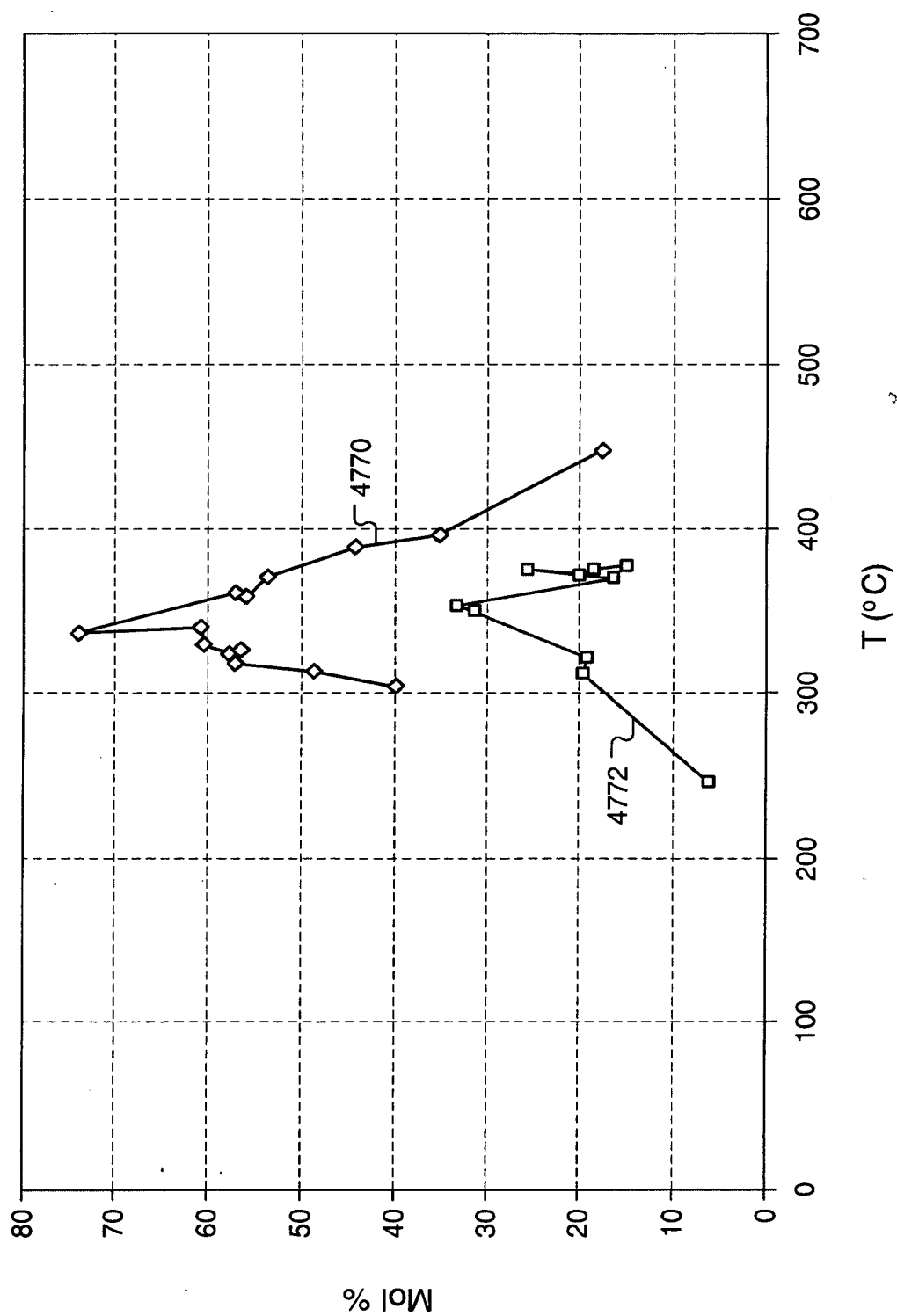


FIG. 173

4782 = 203860

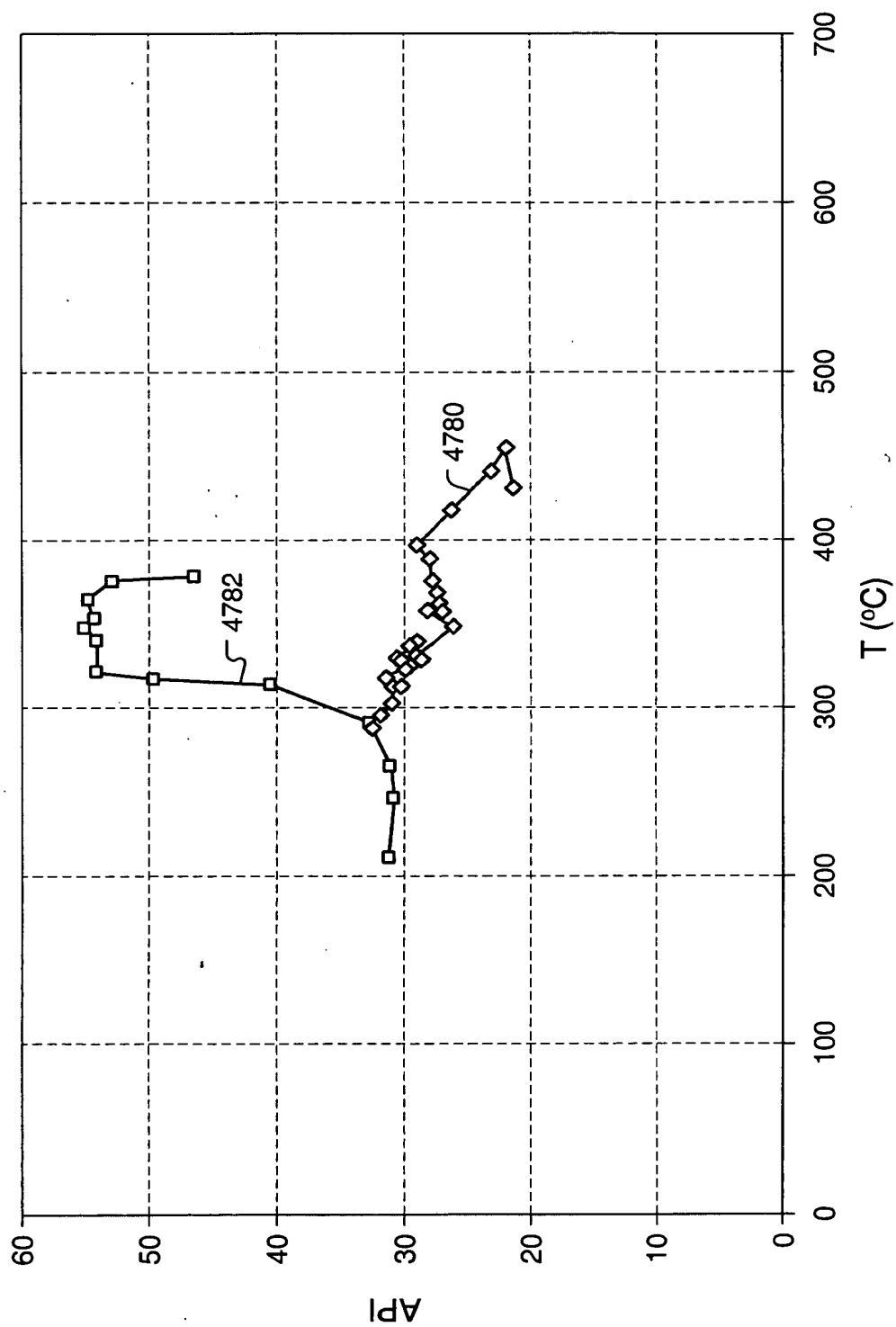


FIG. 174

Case 1:20-cv-01435

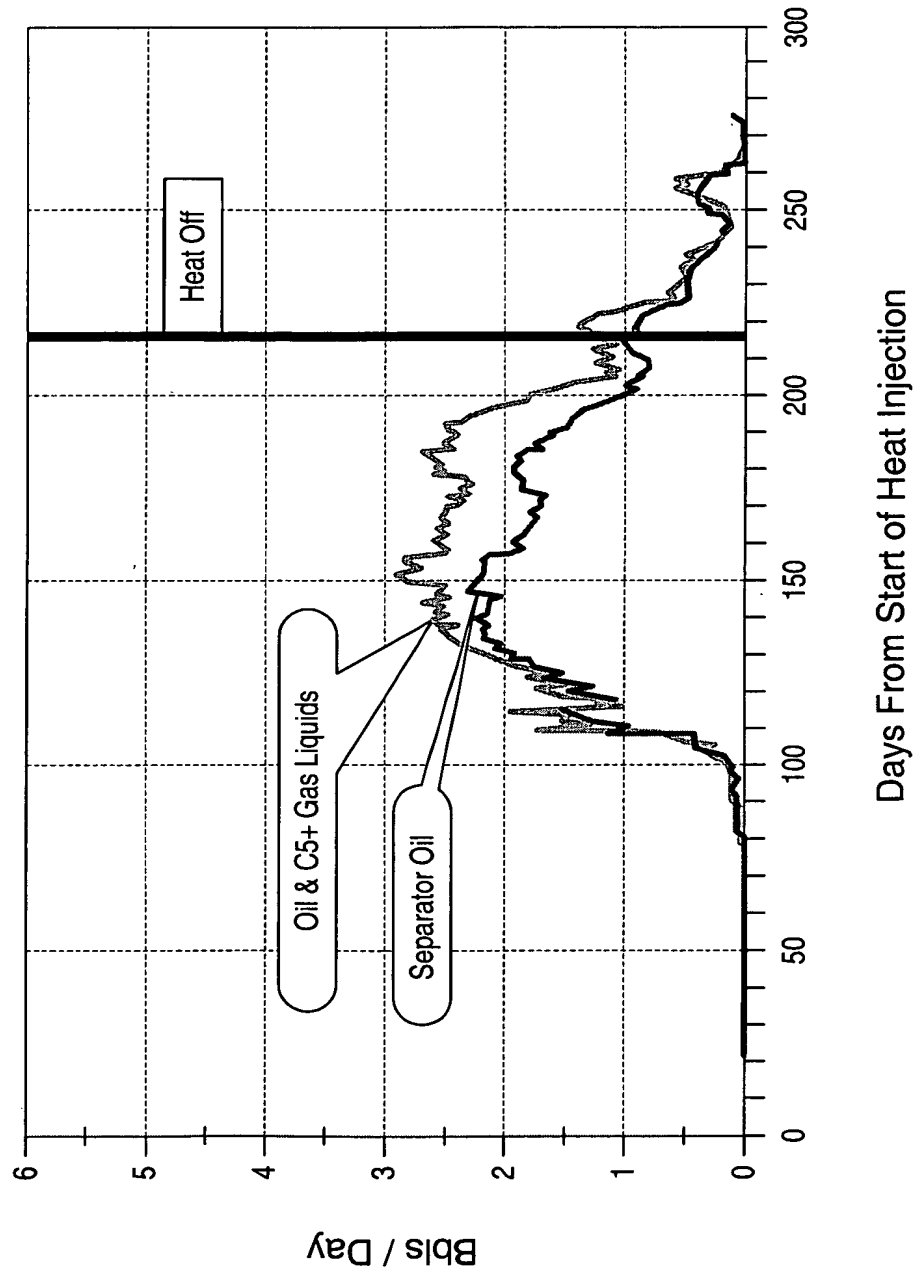


FIG. 175

20200323.4350

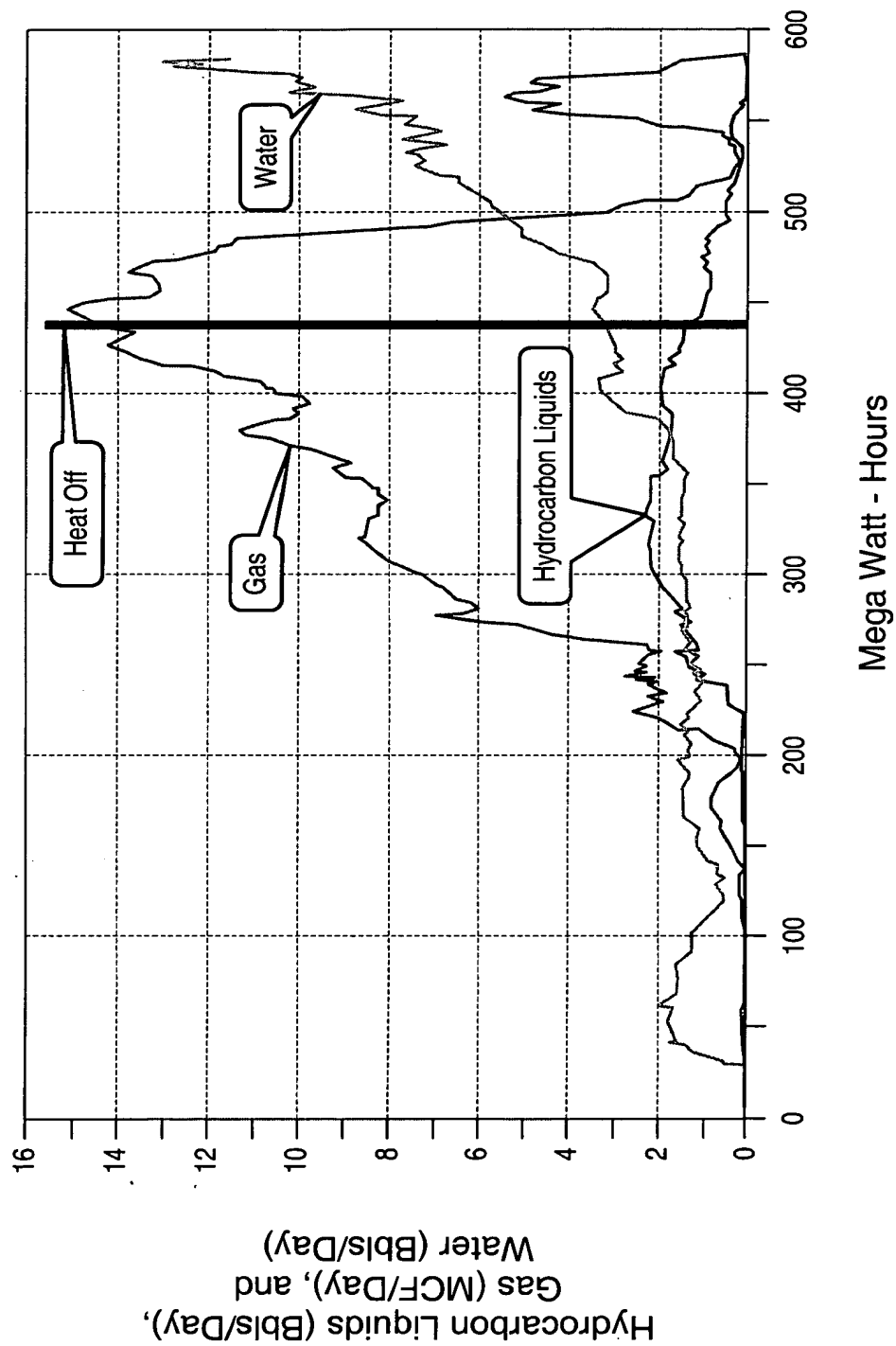


FIG. 176

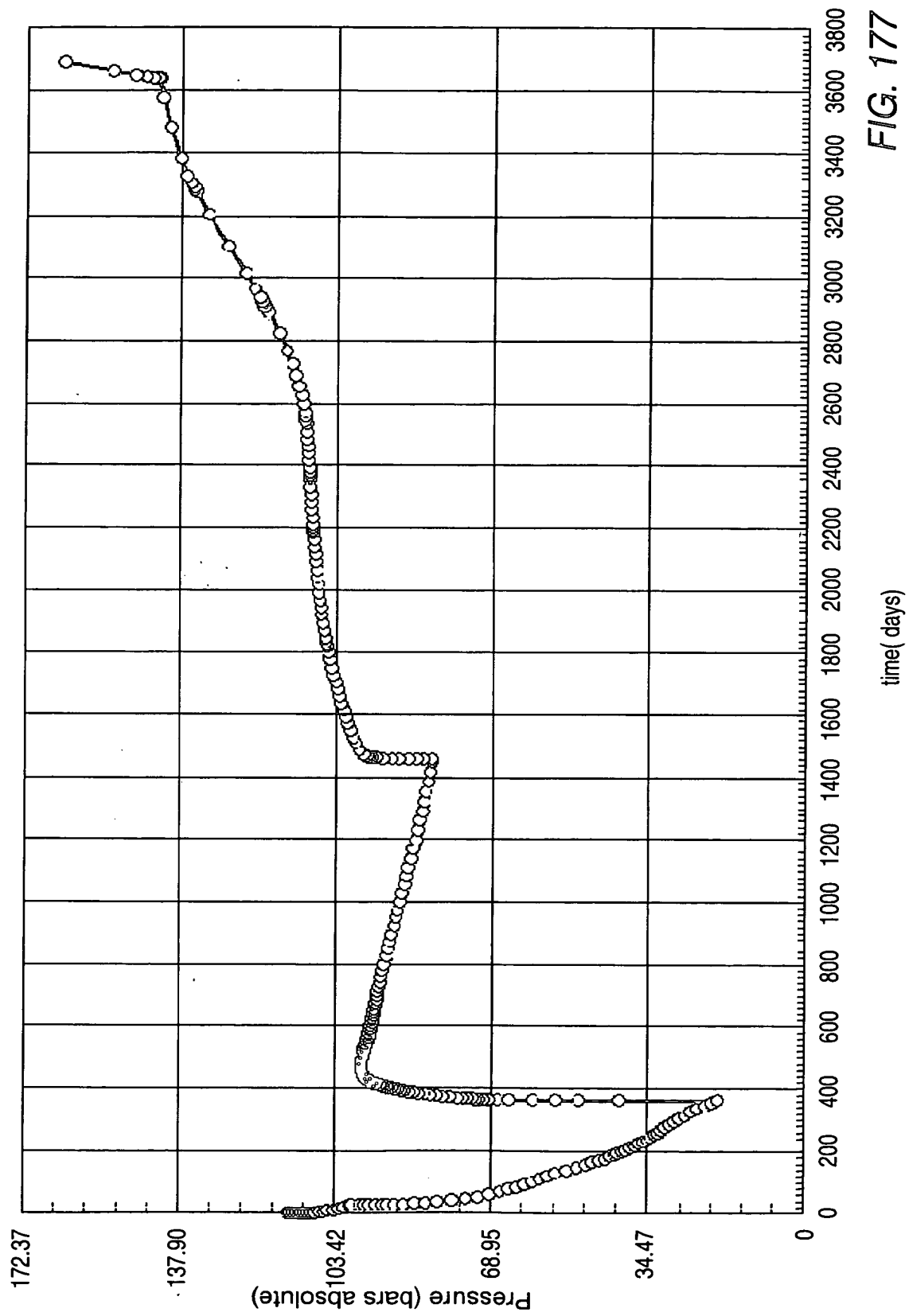


FIG. 177

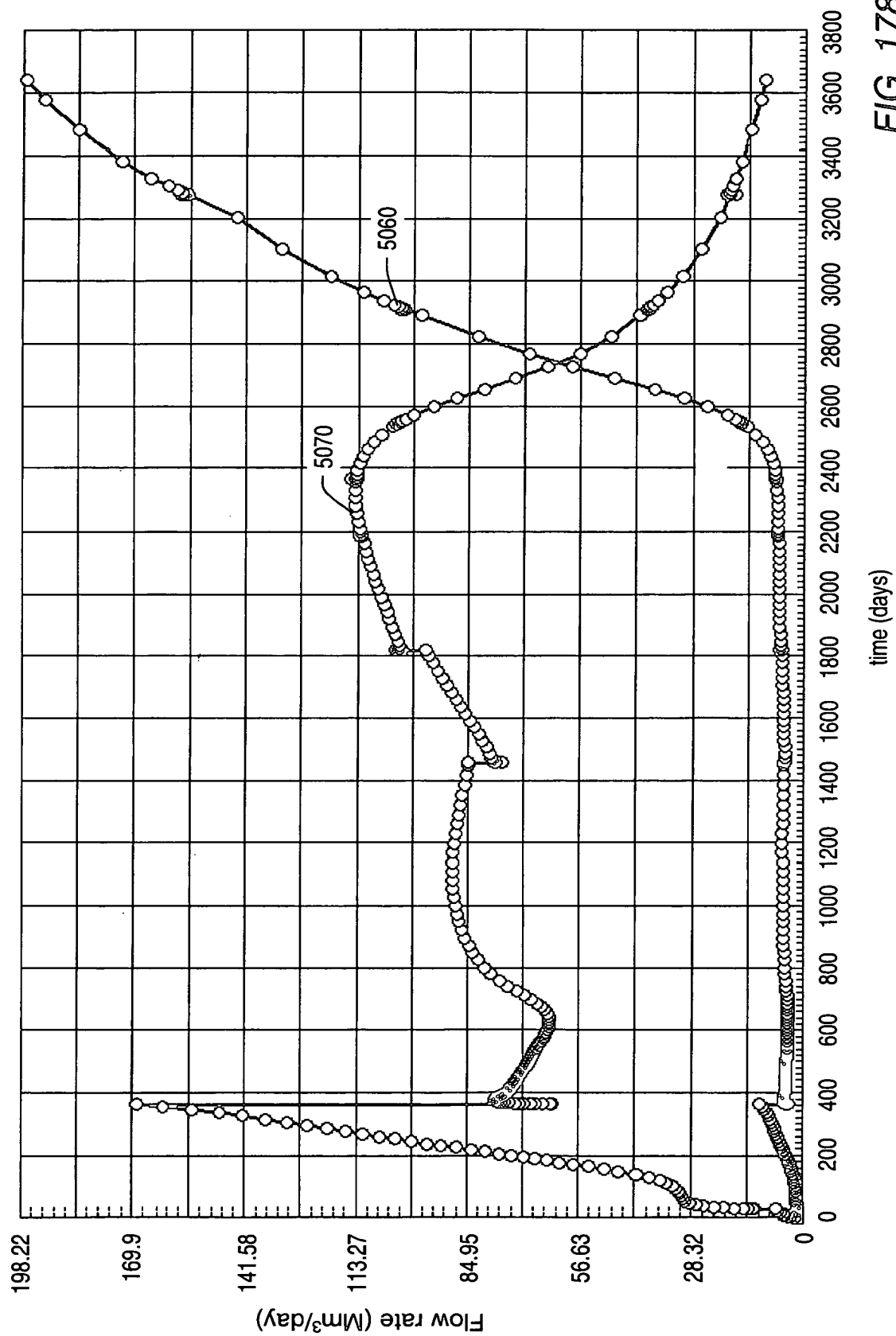


FIG. 178

804240 224353

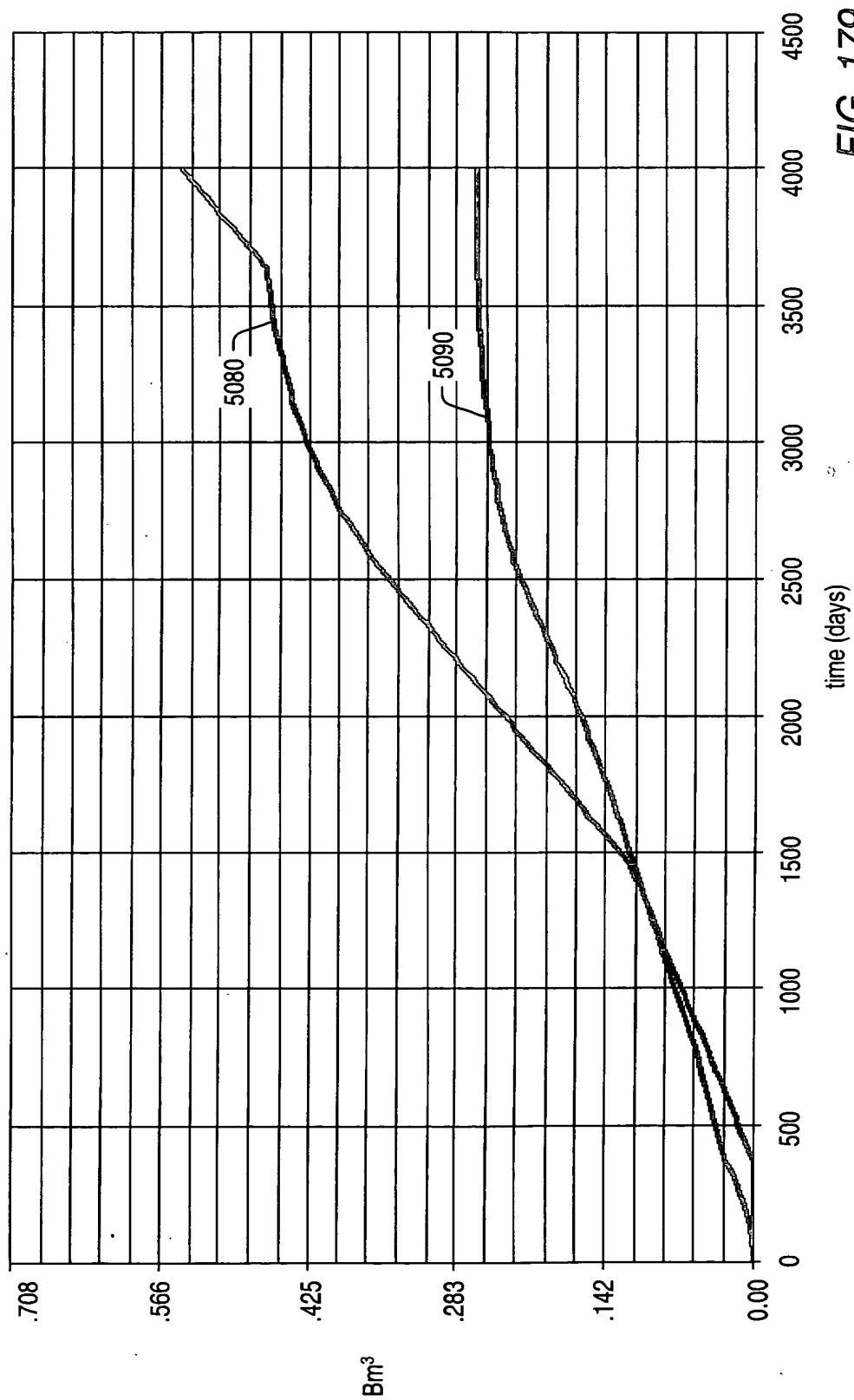


FIG. 179

Pressure (bars absolute)

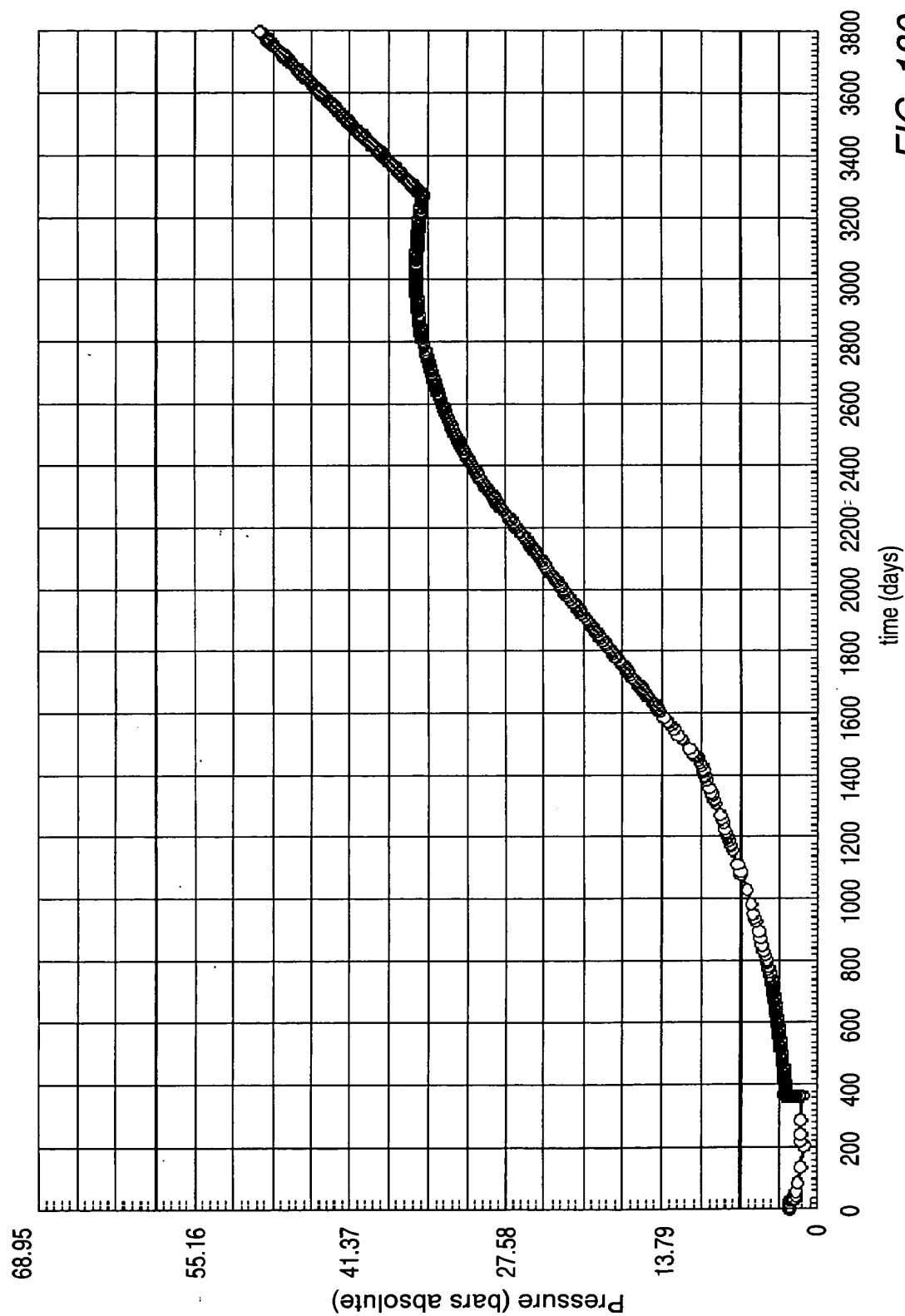


FIG. 180

FIG. 180 = 2003.7.4.22.60

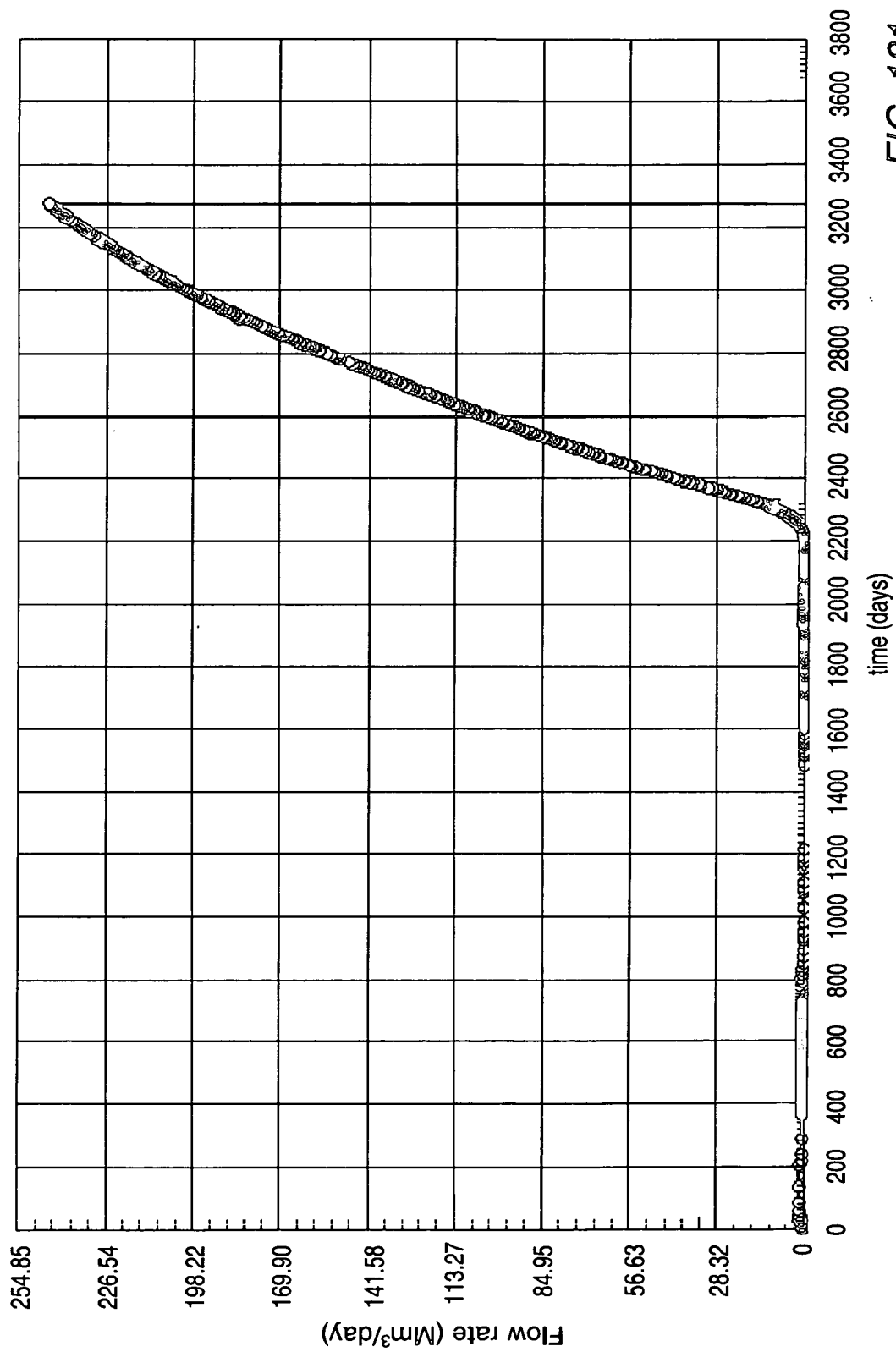


FIG. 181

FIG. 182

